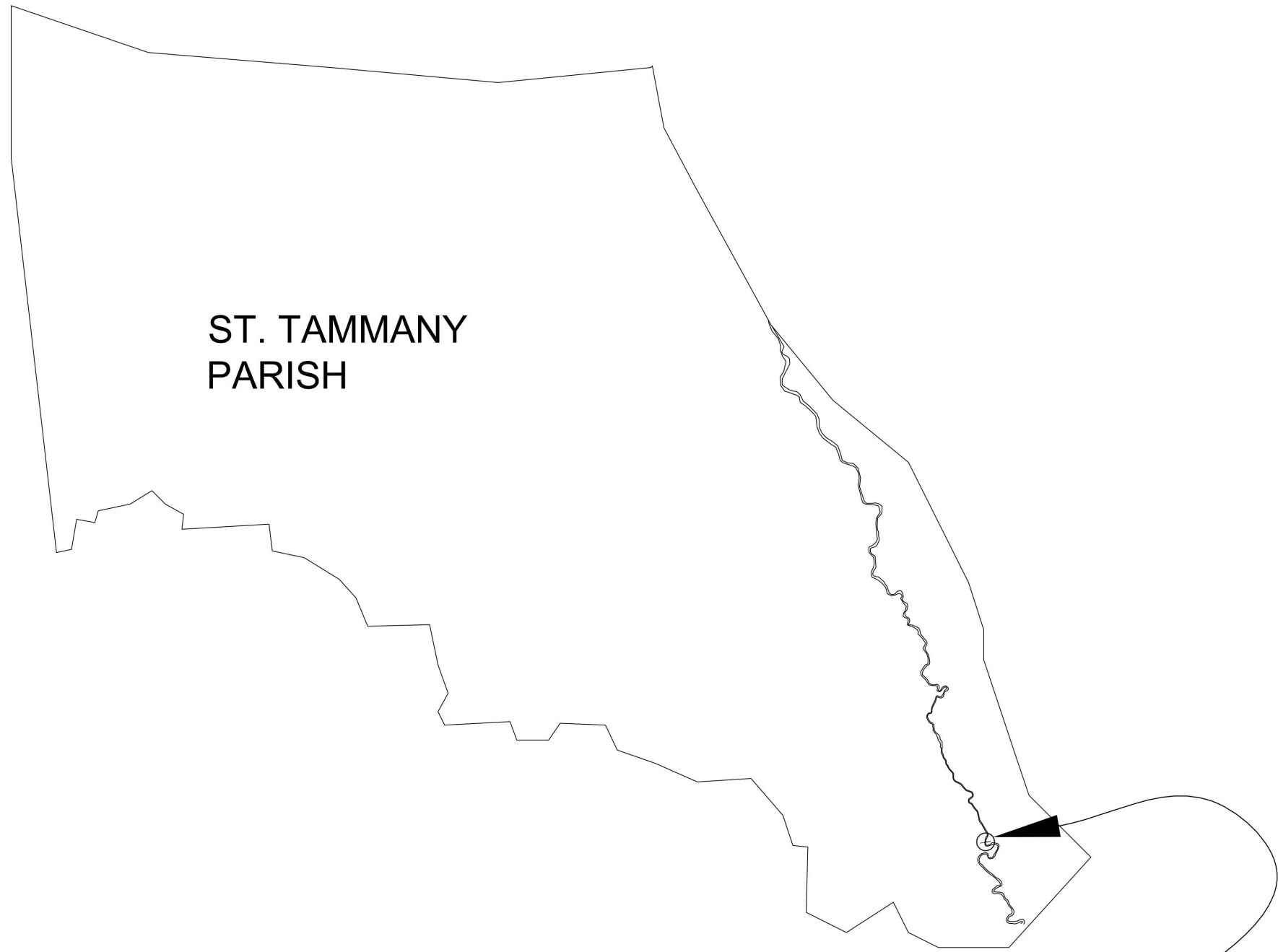
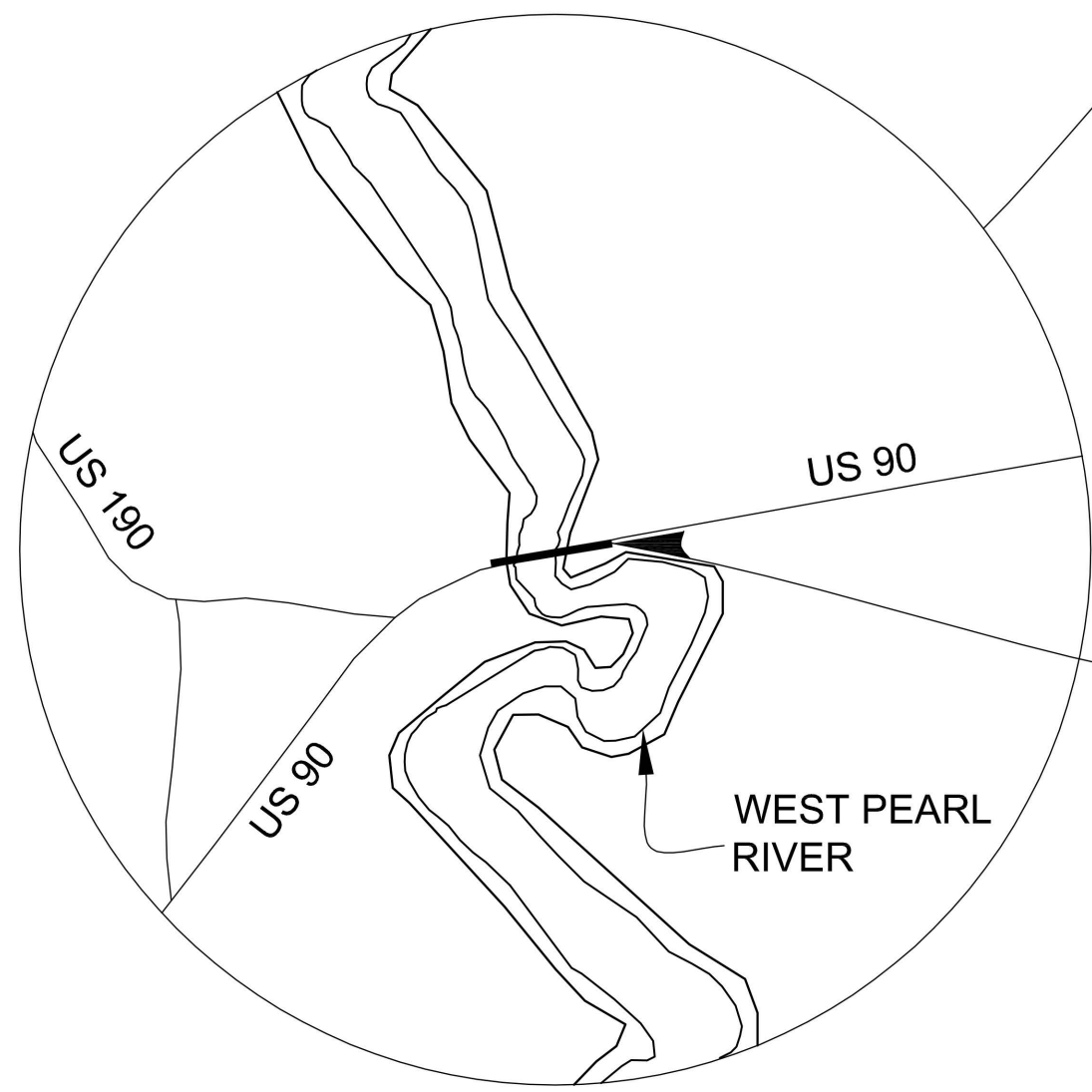


WEST PEARL RIVER BRIDGE



ST. TAMMANY
PARISH

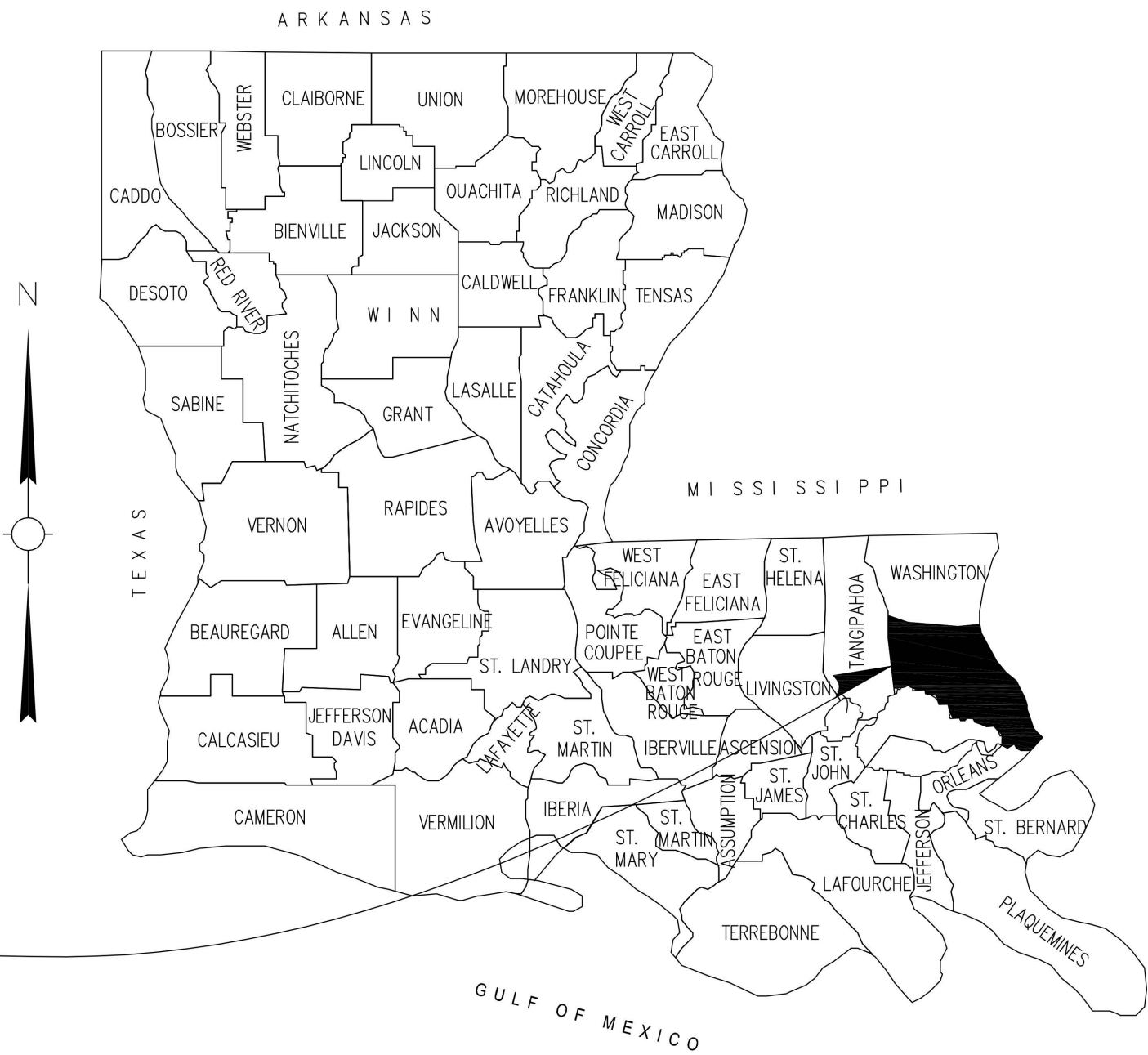


WEST PEARL
RIVER BRIDGE

WEST PEARL
RIVER

SLIDELL

LOCATION MAP
Latitude: 30.23075 North
Longitude: -89.670333 West



ST. TAMMANY
PARISH

LOUISIANA

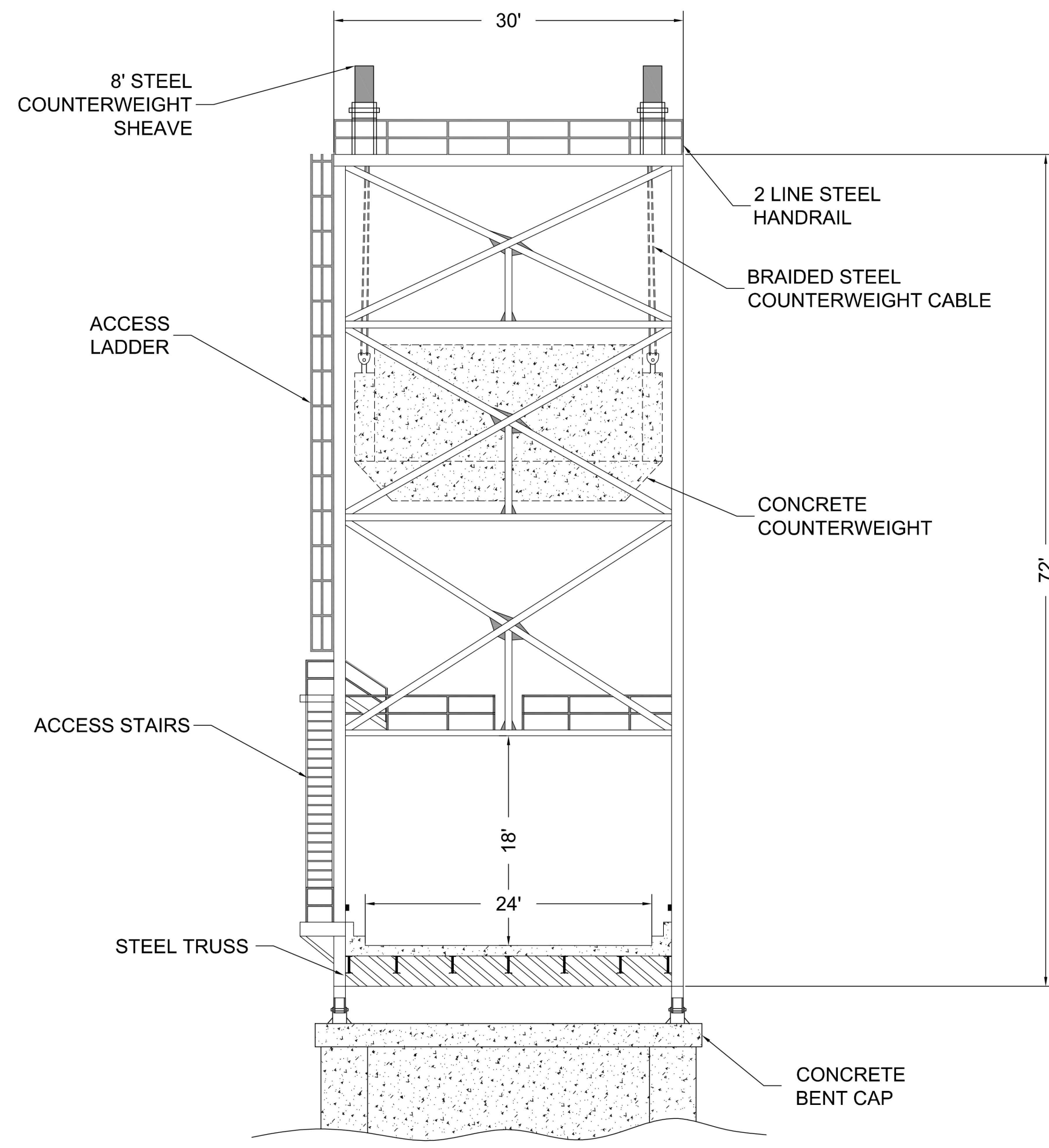
The West Pearl River Bridge (Bridge Recall No. 058710), designed by the Louisiana Highway Commission and completed in 1933, is significant as one of four bridges constructed to carry US 90/Old Spanish Trail over the Pearl River in St. Tammany Parrish in the early 1930s. The bridge is an essential part of the Rigolets-Pearlington highway shortcut connecting New Orleans to the Mississippi Gulf Coast. Construction of the shortcut created a more direct and efficient route between Louisiana and Mississippi and made a significant contribution to the broad patterns of Louisiana's transportation history.

The West Pearl River Bridge is also significant as an important variation within the vertical lift bridge type - a vertical lift span-drive bridge with a Waddell and Harrington configuration. This variation is demonstrated in the location of the drive machinery on the movable span that operates uphaul and downhaul ropes to raise and lower the span. The West Pearl River Bridge was determined eligible for listing in the National Register of Historic Places in 2012 under Criterion A: Transportation and Criterion C: Design/Engineering at the state level of significance.

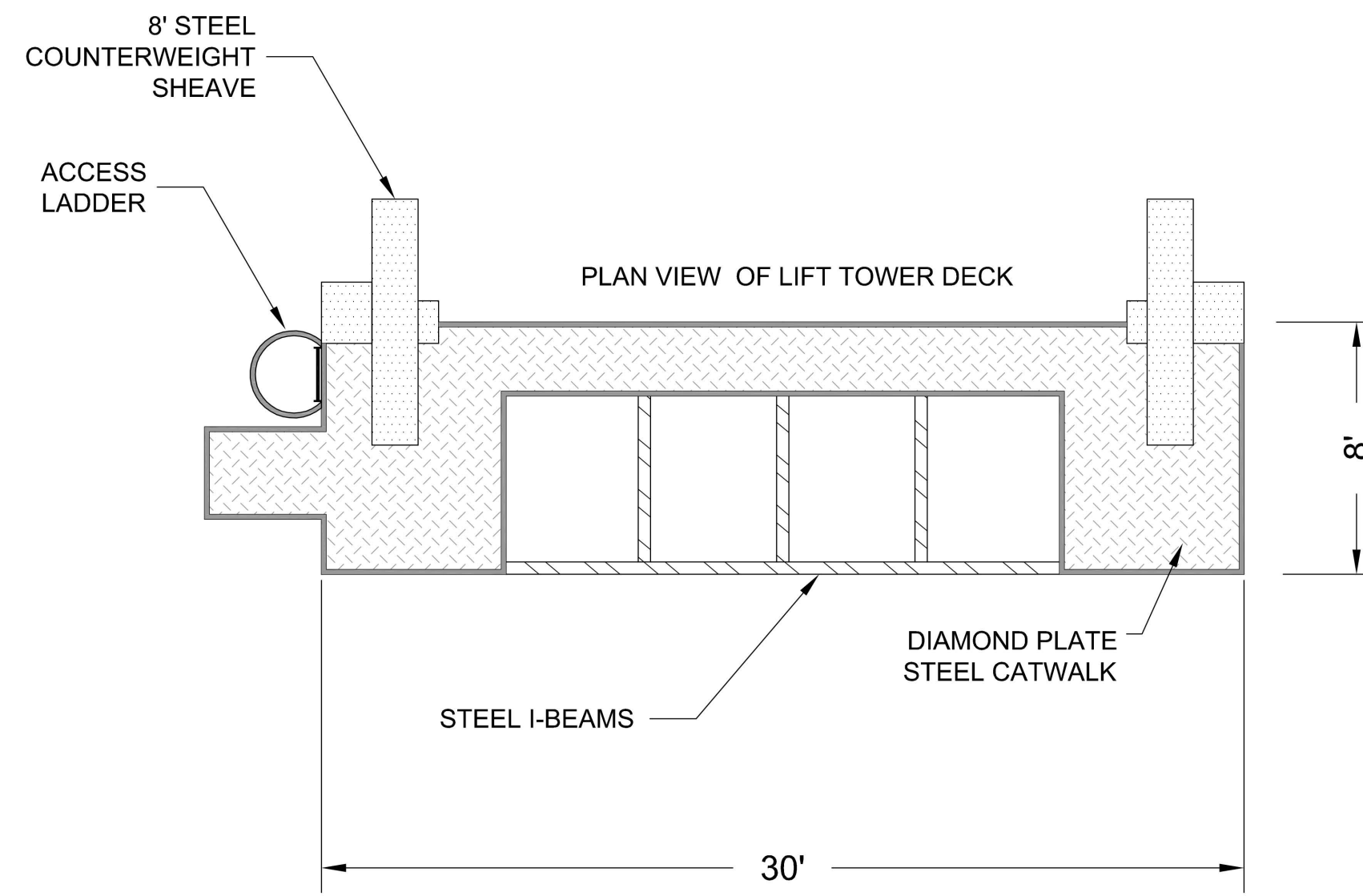
This documentation was prepared to fulfill Stipulation IX.5 of the Programmatic Agreement Among the Federal Highway Administration, the Louisiana Department of Transportation and Development, the Advisory Council on Historic Preservation, and the Louisiana State Historic Preservation Officer Regarding Management of Historic Bridges in Louisiana, dated August 18, 2015 and executed September 21, 2015. The Louisiana Department of Transportation and Development (LADOTD) retained Mead & Hunt to prepare this document. It was prepared by Shannon Dolan, Cultural Resource Specialist, of Mead & Hunt, Stephen V. Estopinal, P.E., P.L.S. and Trenton Iglehart, Geodetic Analyst, of SJB Group, LLC. Dietrich Floeter completed the photography. These measured drawings were prepared based on a site visit to complete laser scanning of the bridge, with selective hand measuring in the field to verify measurements.

These measured drawings were prepared based on a site visit to complete laser scanning of the bridge, with selective hand measuring in the field to verify measurements.

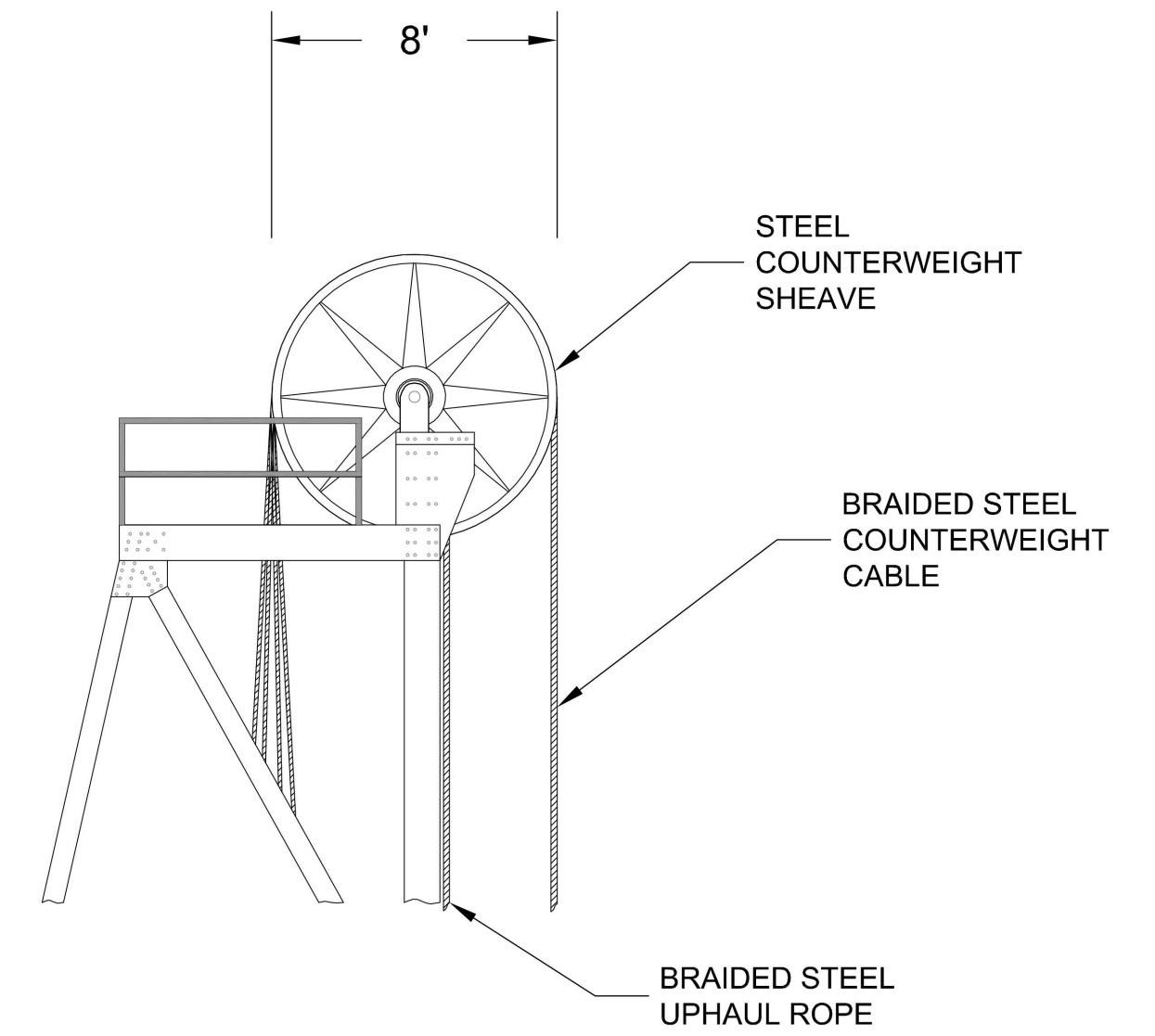




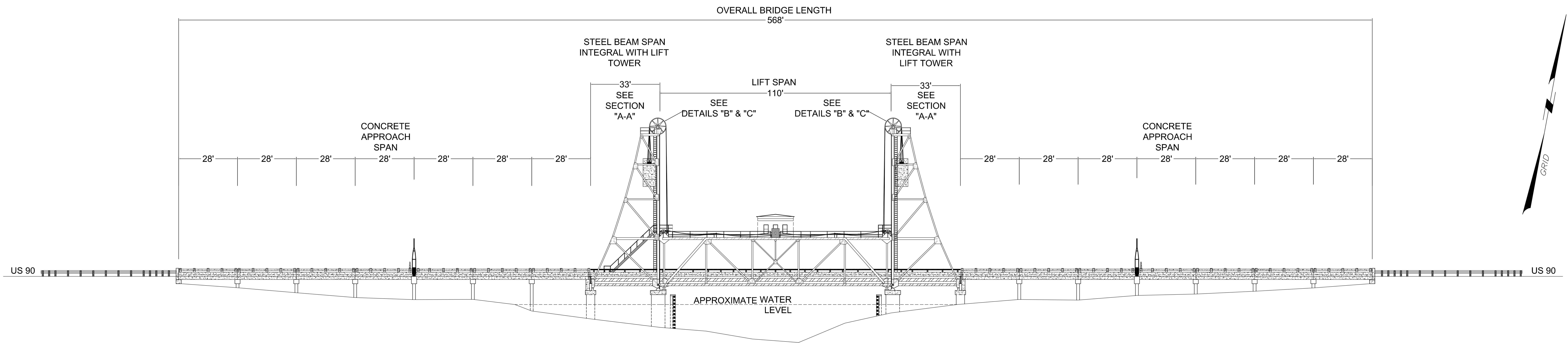
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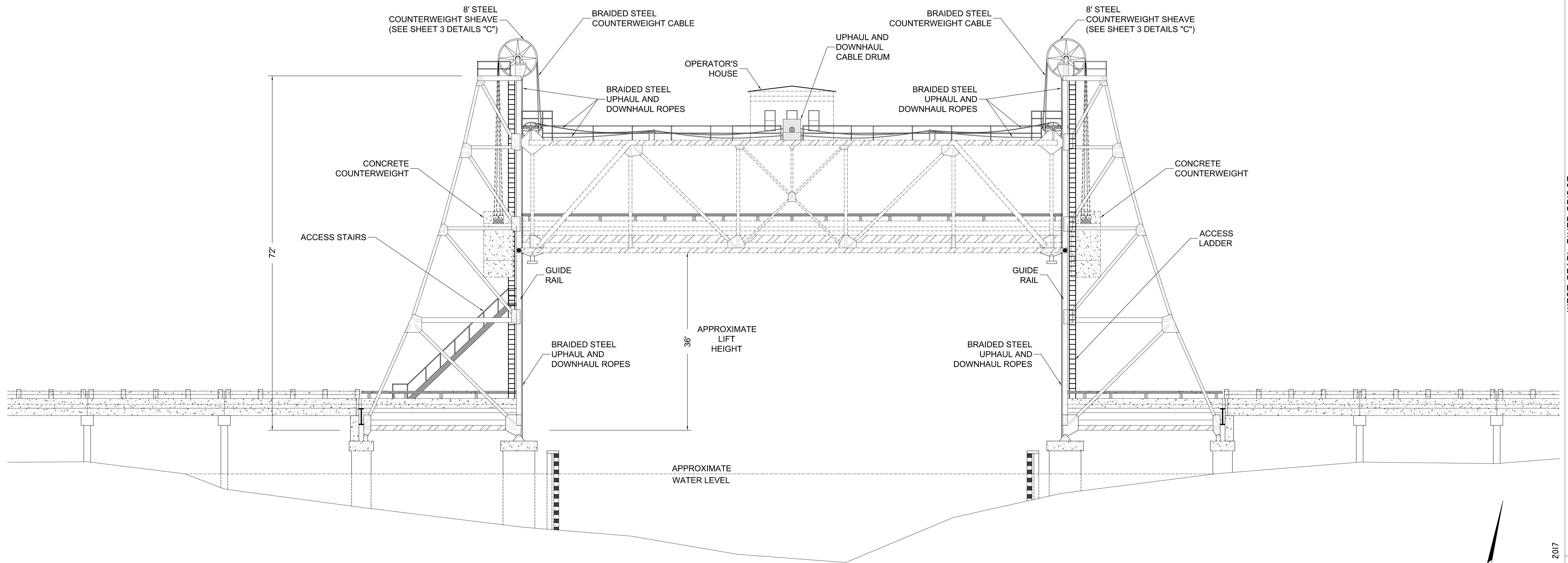
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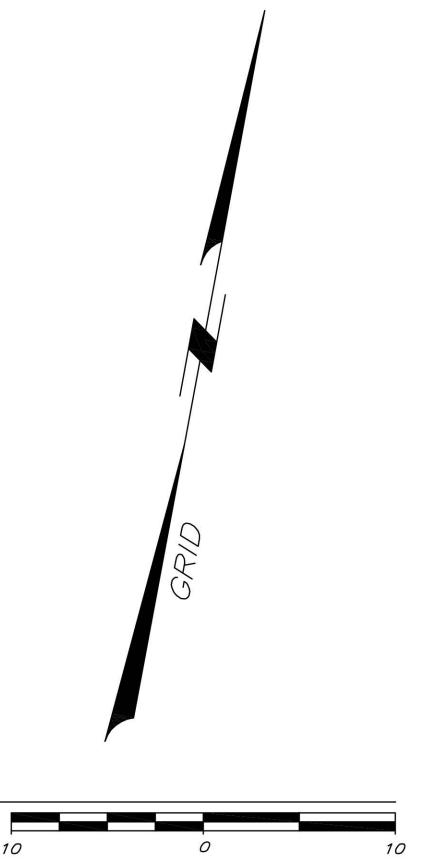
DETAIL "C"
(NOT TO SCALE)



PROFILE VIEW



OPERATIONAL VIEW



DELINEATED BY: T. IGLEHART, SUB GROUP, LLC., 2017

LOUISIANA HISTORIC
BRIDGE INVENTORY
NATIONAL PARK SERVICE
UNITED STATES DEPARTMENT OF THE INTERIOR

SLIDELL

WEST PEARL RIVER BRIDGE
CARRIES U.S. ROUTE 90 (US 90) OVER THE WEST PEARL RIVER
ST. TAMMANY PARISH

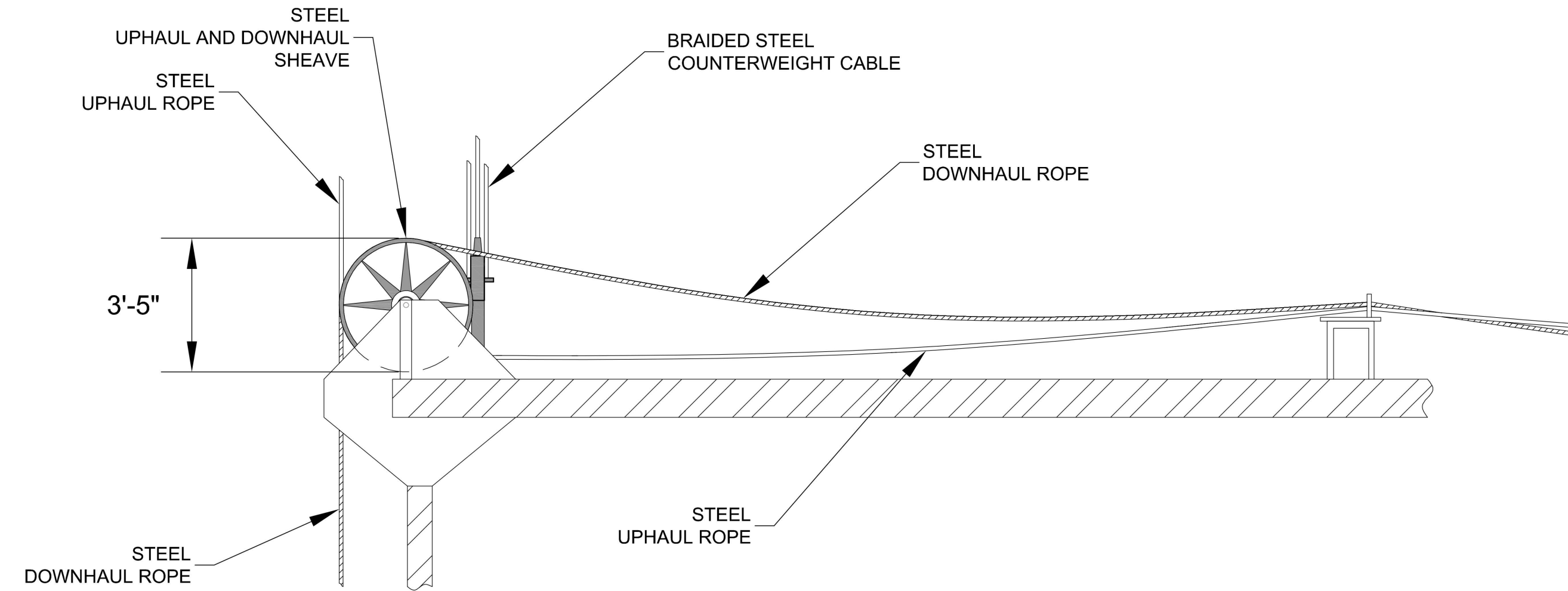
LOUISIANA

SHEET
4 OF 5

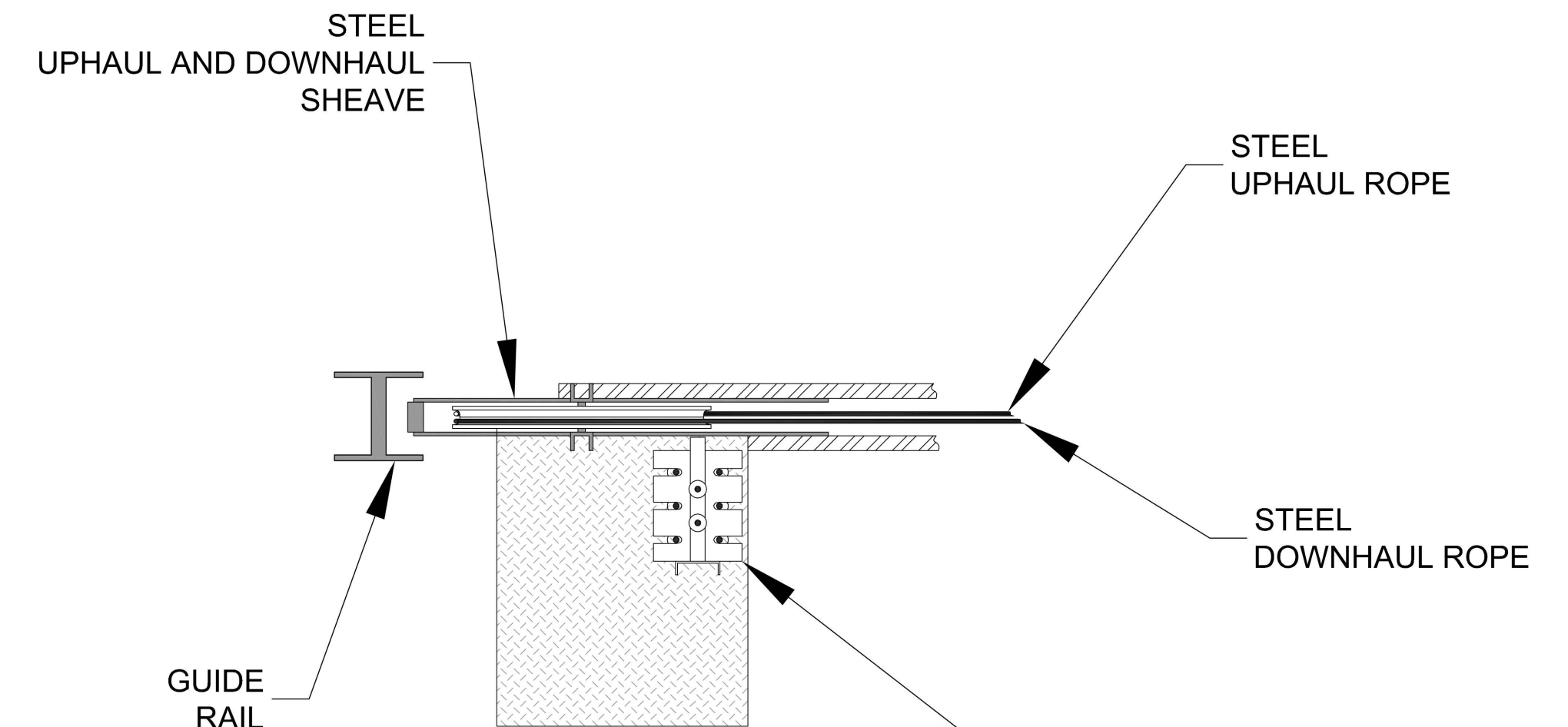
HISTORIC AMERICAN
ENGINEERING RECORD

LA-31

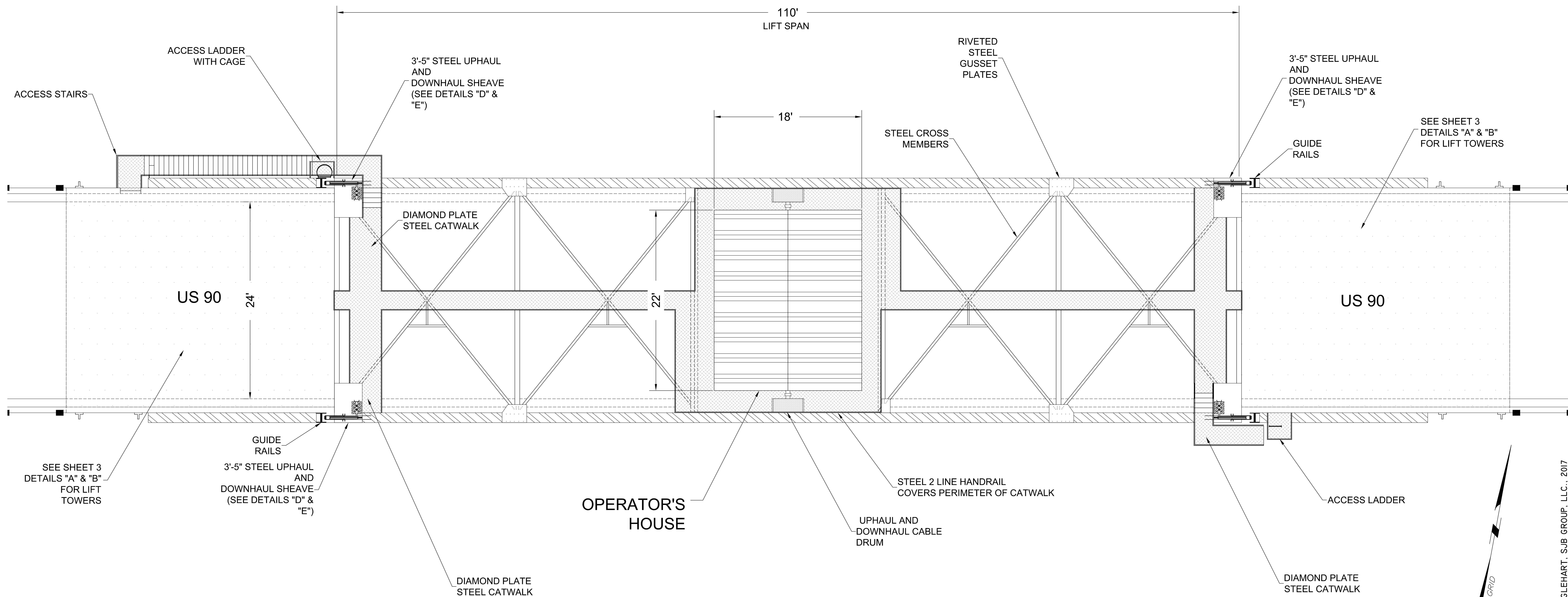
LIBRARY OF CONGRESS
INDEX NUMBER



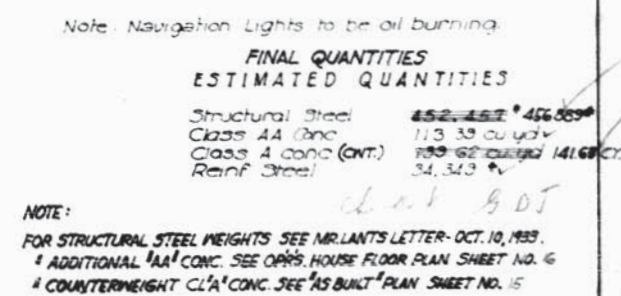
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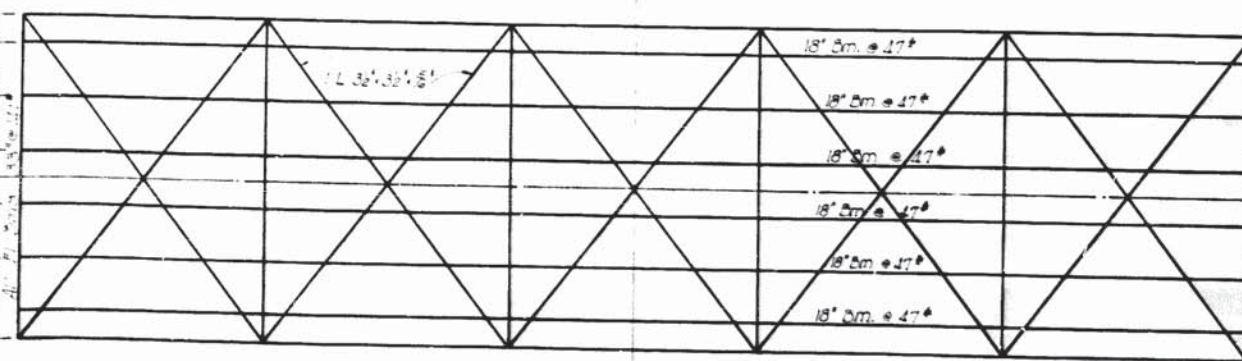
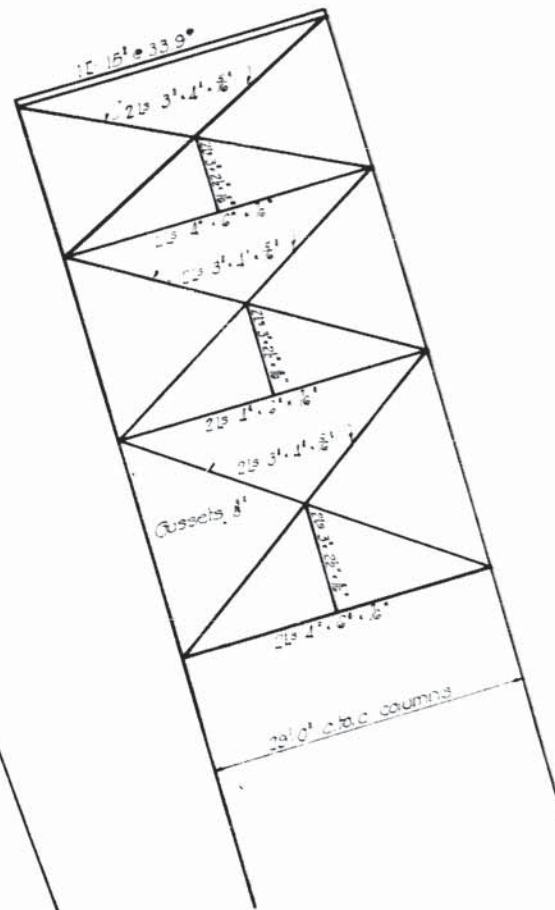
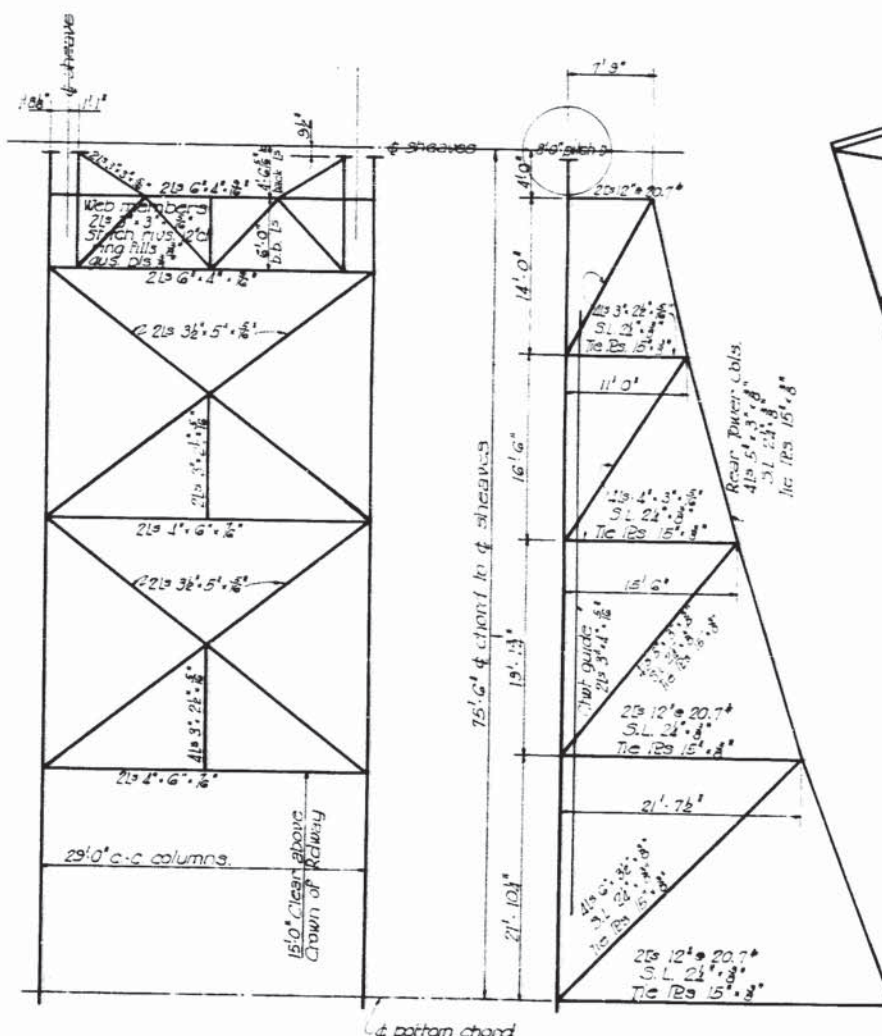
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LIFT SPAN PLAN VIEW



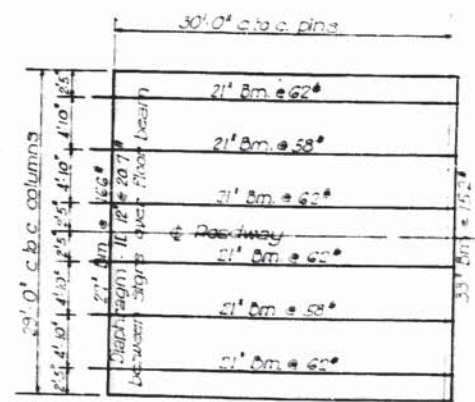
Page 1 of 3 S-L-2



General Notes:

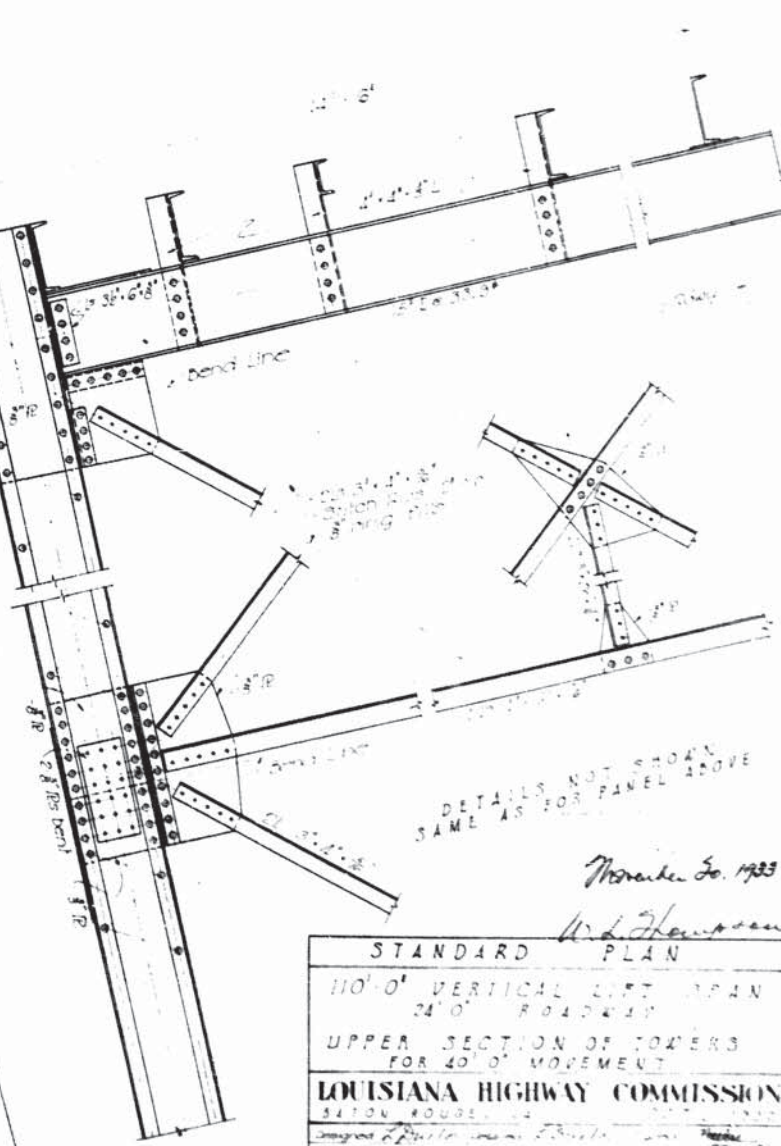
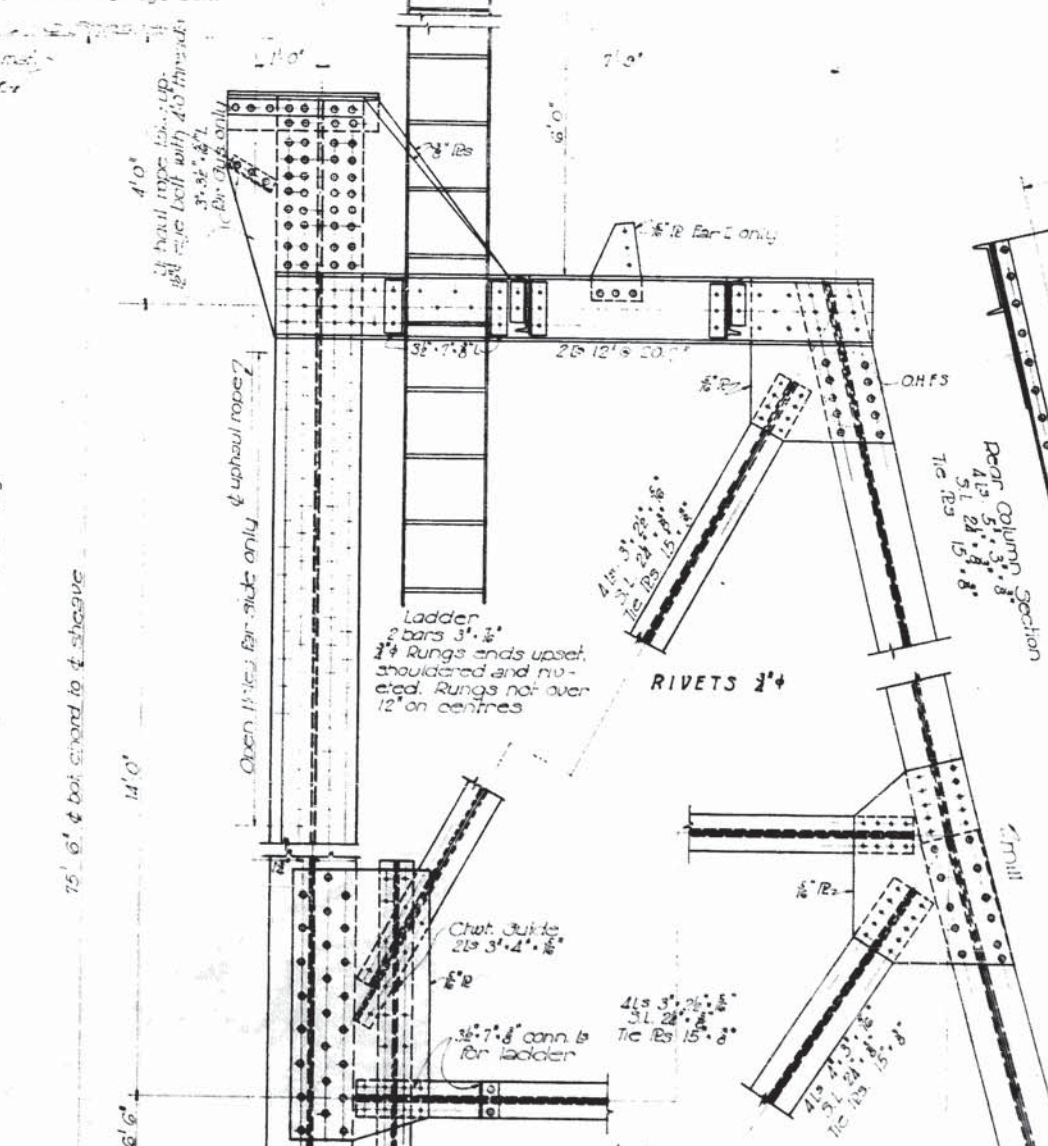
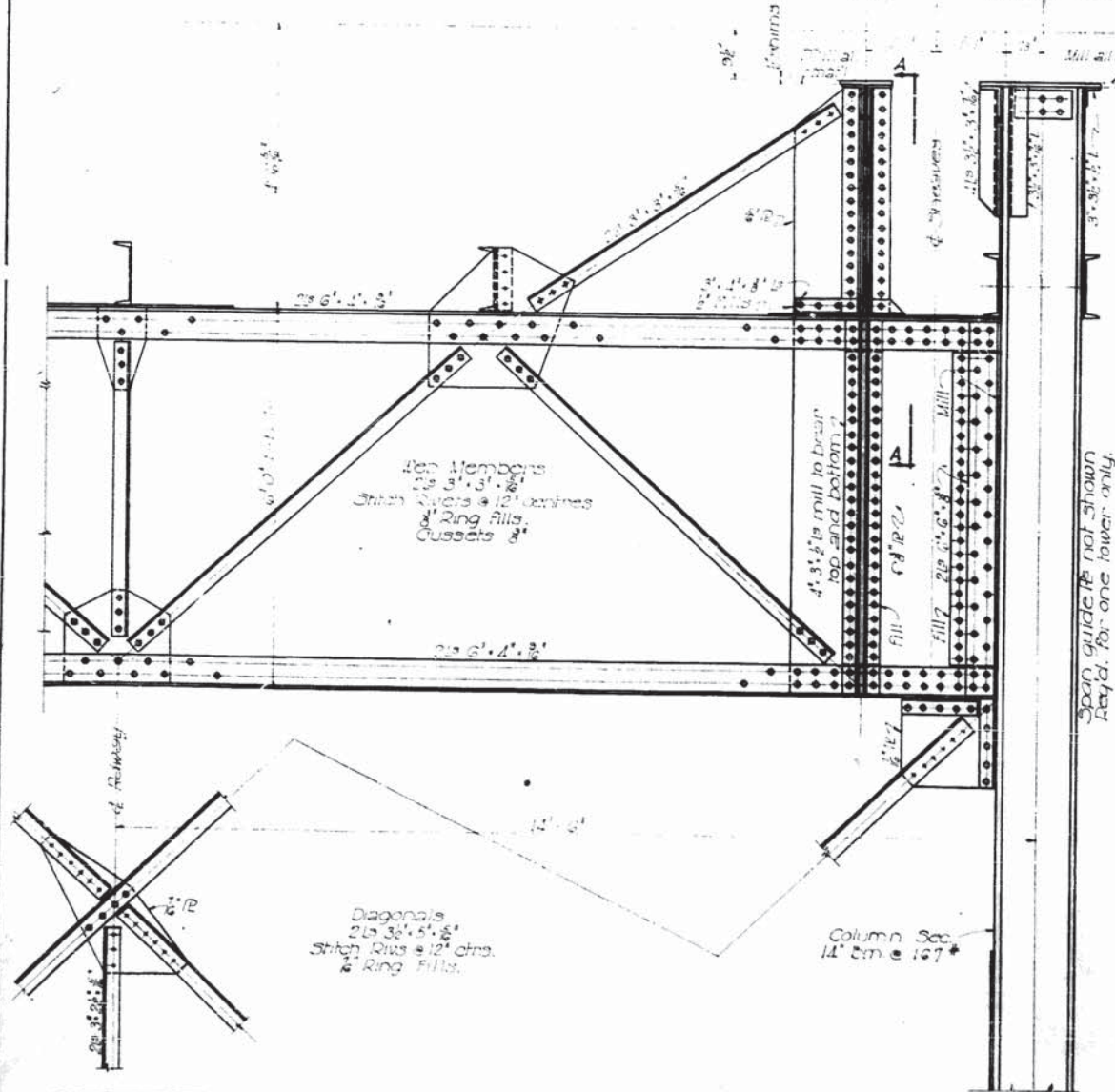
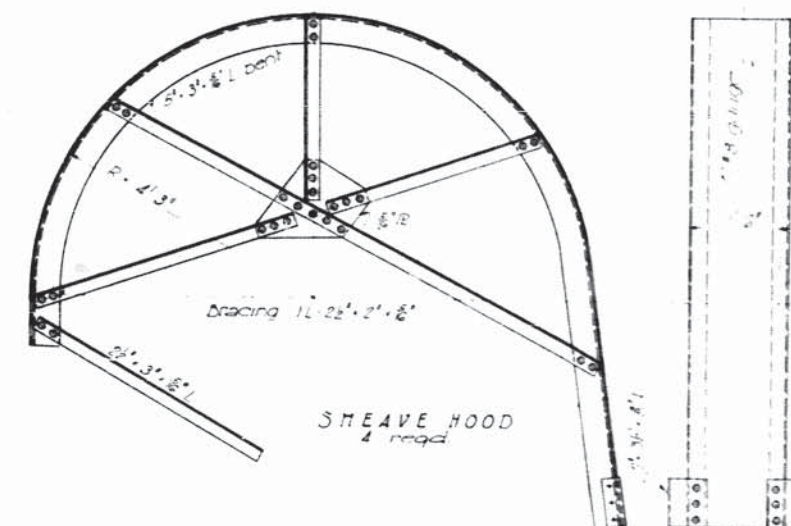
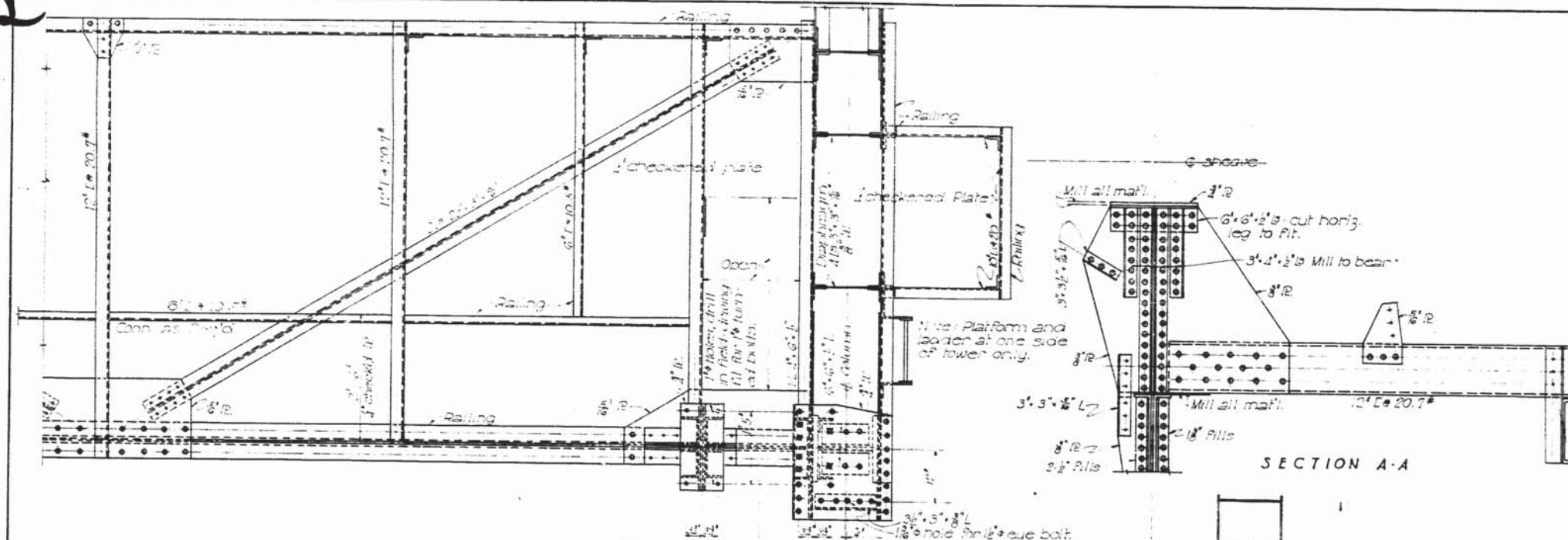
Specifications: Louisiana Highway Commission.

Live loading: H-15. Dead load: Calculated weight of concrete and steel. All material structural steel unless noted. Rivets to be 3/4" and open holes 3/4" unless noted. Ends of Floor Beams to be milled after connection angles are riveted in place. Stringers not to be riveted to floor beams until after Lift span has been swung. Trusses to be cambered so that bottom chord will have a permanent camber under dead load. If trusses are to be used on a vertical curve geometric lengths of members to be figured so that the bottom chord and tops of floor beams will conform to vertical curve, then trusses cambered for dead load only. Length of bottom chord under full dead load to be 110' 0" c. to c. of end pins. Towers to be cambered so that front legs will be vertical under dead load. All cast steel shoes to be paid for as structural steel. Cost of cast iron drains and all expansion or contraction joint material, except structural steel, to be included in unit price bid for concrete in floor slab. Structural Steel machinery supports to be paid for as structural steel. Floor slabs & curbs to be cl. AA conc. Counterweight concrete to be Class A. Net weight of each piece of machinery to be marked plainly thereon. Stringer lengths to be detailed so that all floor beams will be straight after span has been swung. Gas Pipe Hand rail to be paid for as fab. Structural Steel.

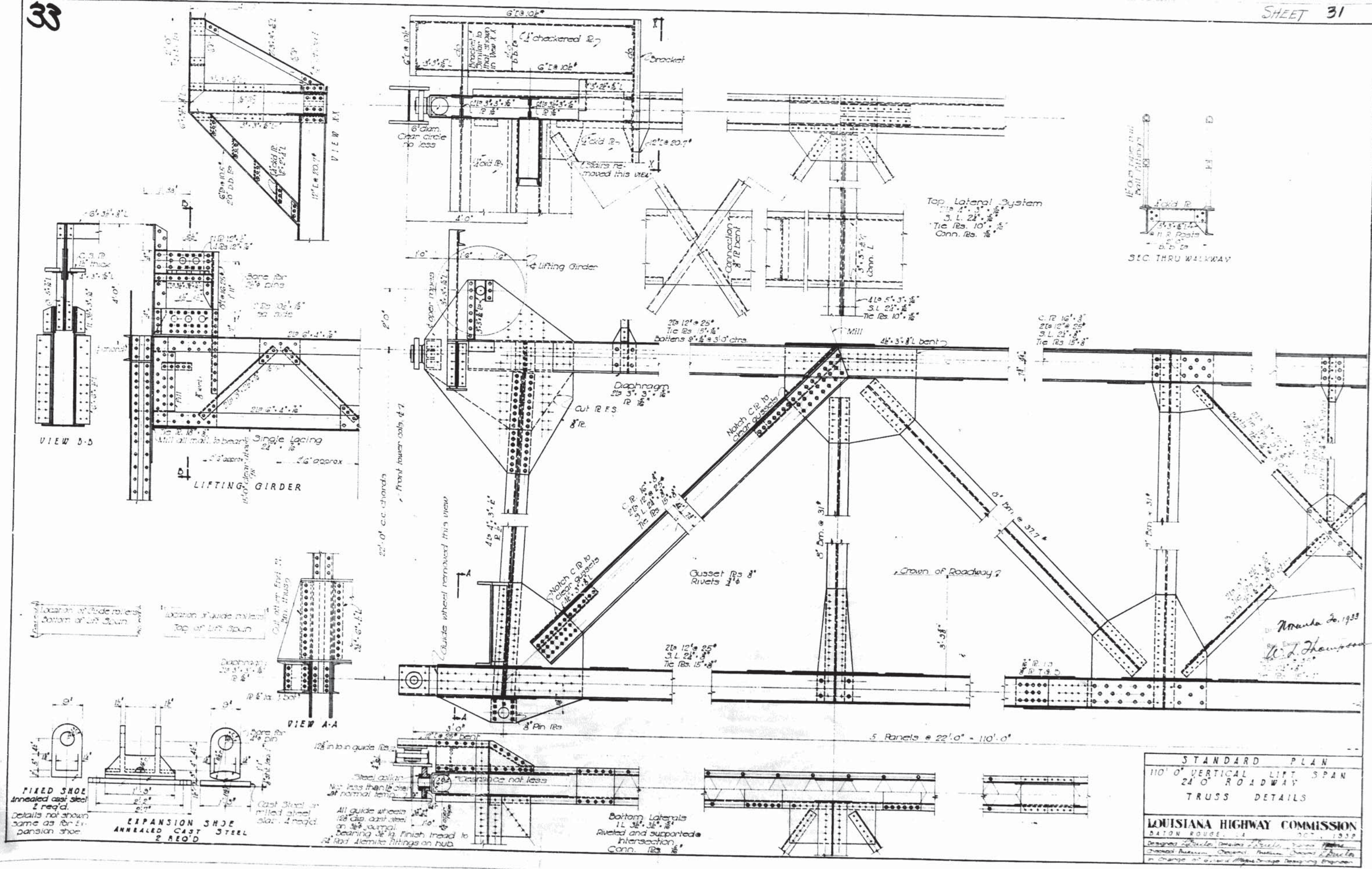


Wanda L. 1933
W. L. Hampton

STANDARD PLAN
110 FT. VERTICAL LIFT SPAN
24' 0" ROADWAY
STRESSES AND SECTIONS
LOUISIANA HIGHWAY COMMISSION
BATON ROUGE, LA OCT 1932
Designed by W. S. Lee, J. M. Jones, & W. S. Lee Checked
Checked by W. S. Lee, J. M. Jones, W. S. Lee, W. S. Lee
In Charge of W. S. Lee & J. M. Jones Supervising Engineer



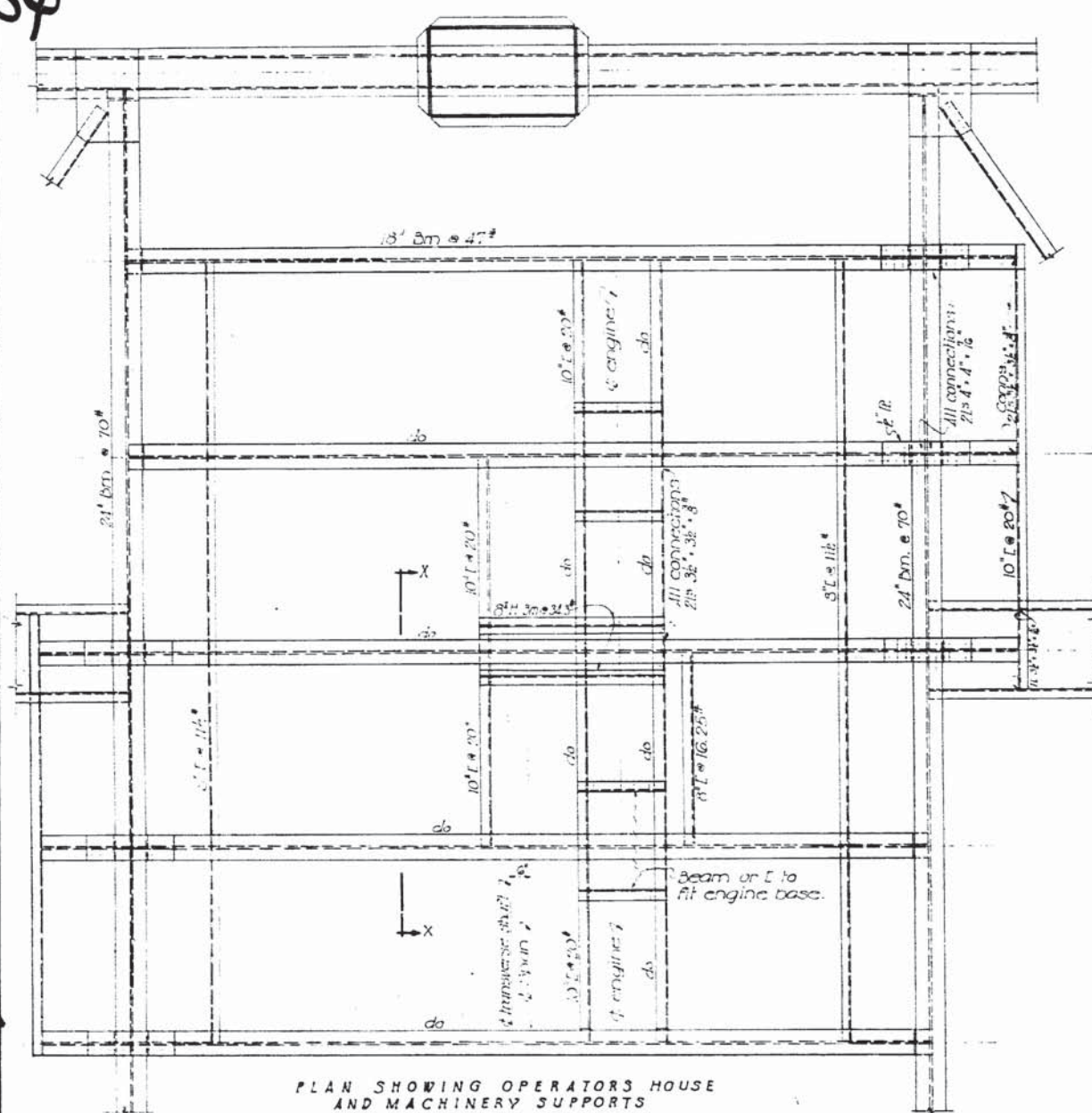
STANDARD PLAN	
110' 0" VERTICAL LIFT SPAN	24' 0" ROADWAY
UPPER SECTION OF TOWERS FOR 40' 0" MOVEMENT	
LOUISIANA HIGHWAY COMMISSION	
SAFETY ROUTE 104	
Designed by E. B. Smith, Jr.	
Checked by E. B. Smith, Jr.	
Approved by E. B. Smith, Jr.	
Date: 10/1/33	



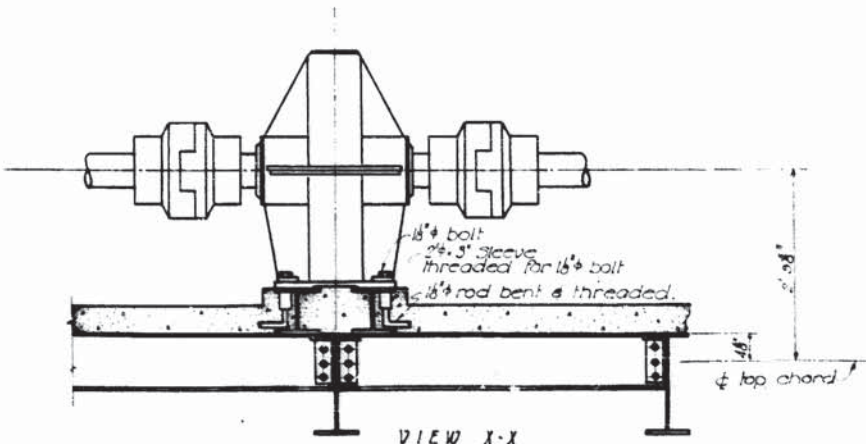
STANDARD PLAN
110' 0" VERTICAL, LIFT SPAN
24' 0" ROADWAY
TRUSS DETAILS

LOUISIANA HIGHWAY COMMISSION
BATON ROUGE, LA
DESIGNED BY: [Name]
CHECKED BY: [Name]
IN CHARGE OF: [Name]

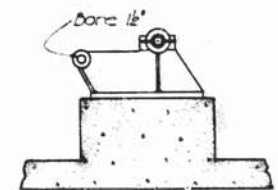
34



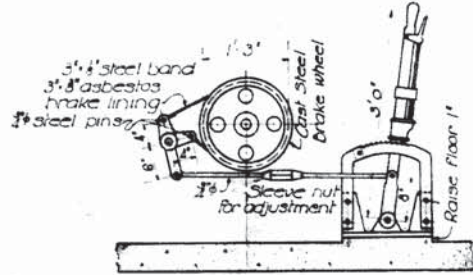
PLAN SHOWING OPERATORS HOUSE AND MACHINERY SUPPORTS



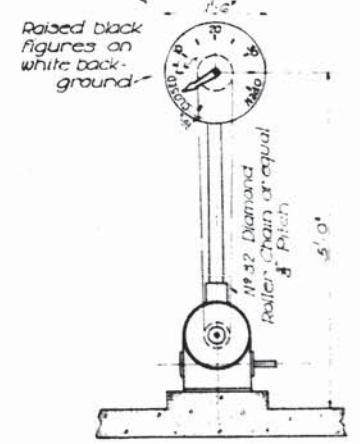
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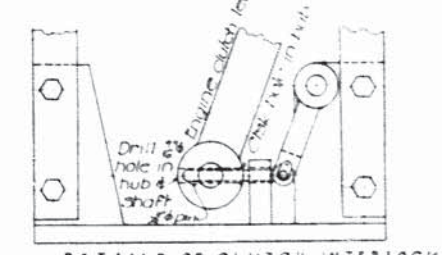
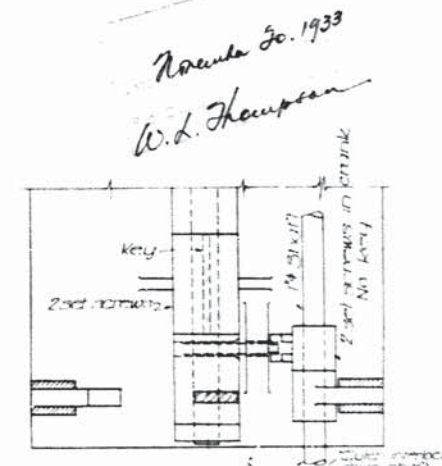
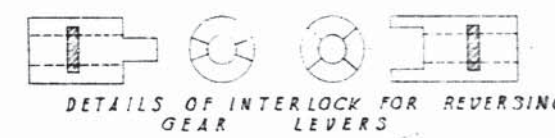
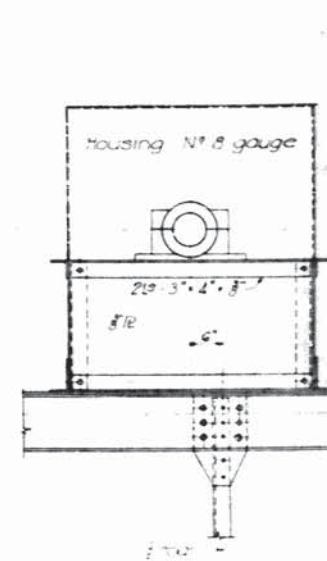
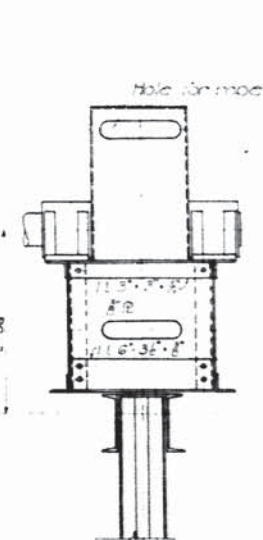
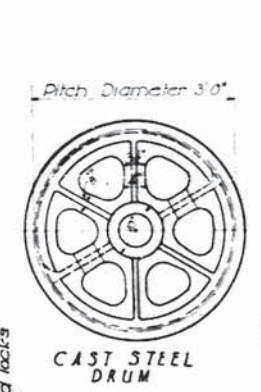
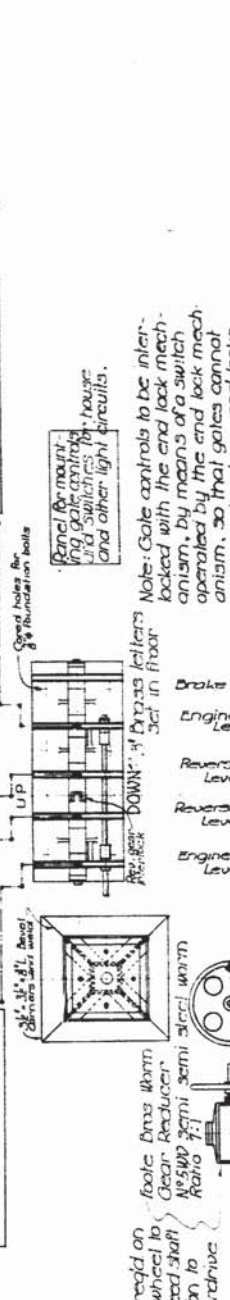
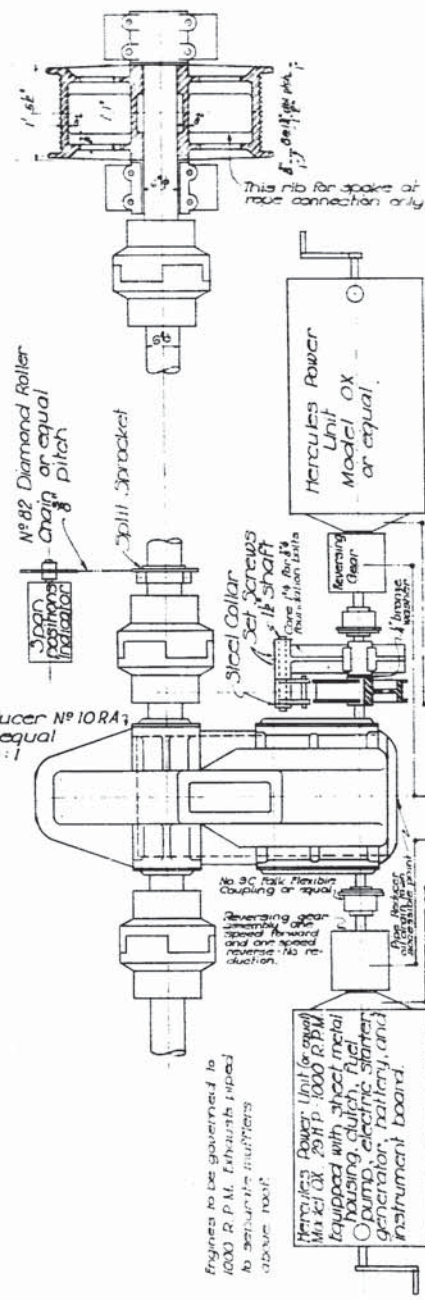
DETAILS HIGH SPEED SHAFT BEARING



DETAILS HAND BRAKE

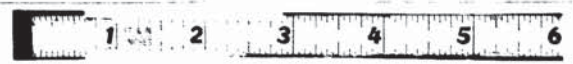


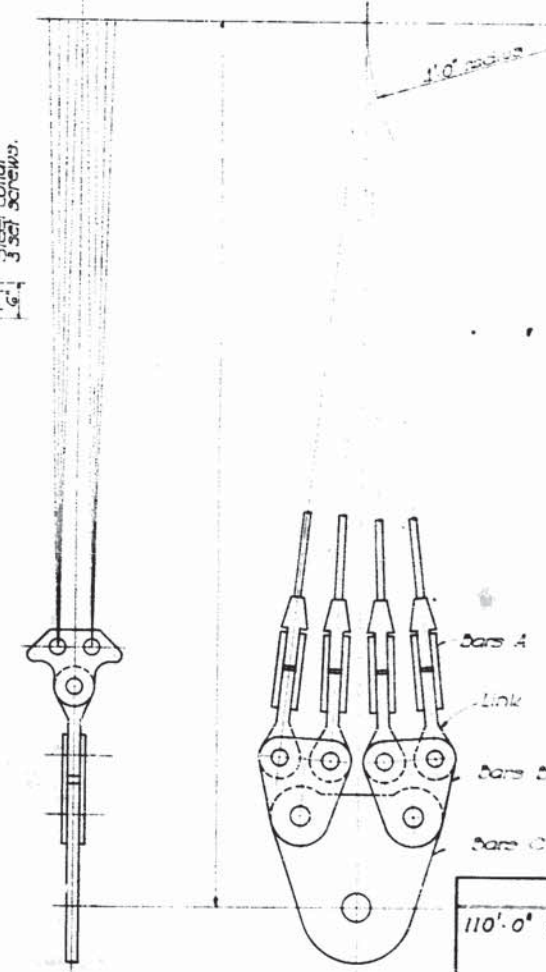
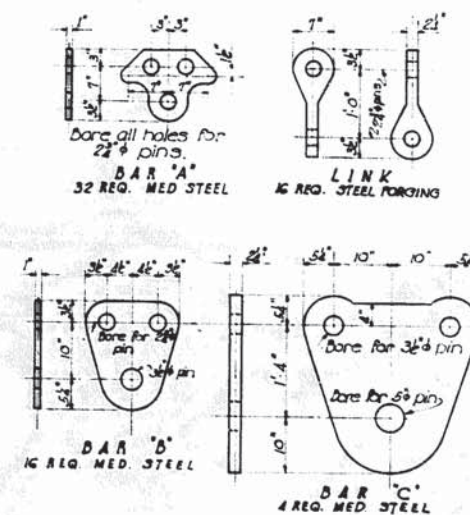
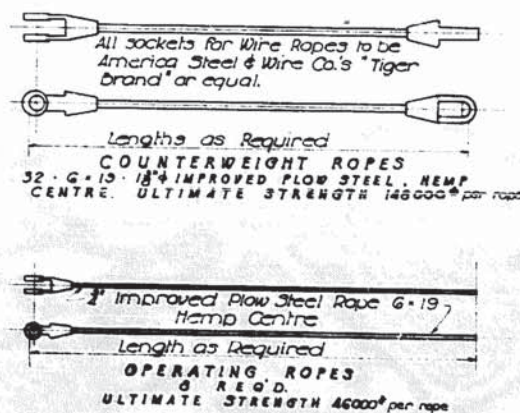
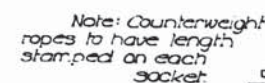
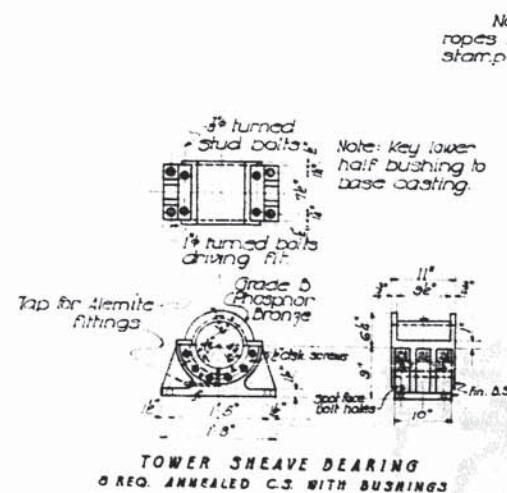
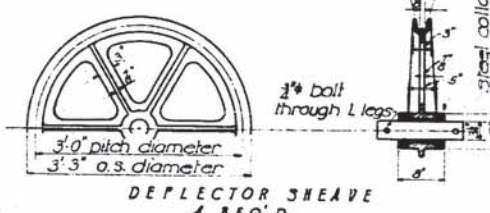
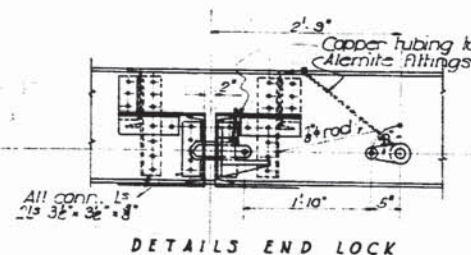
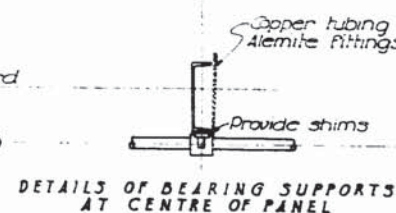
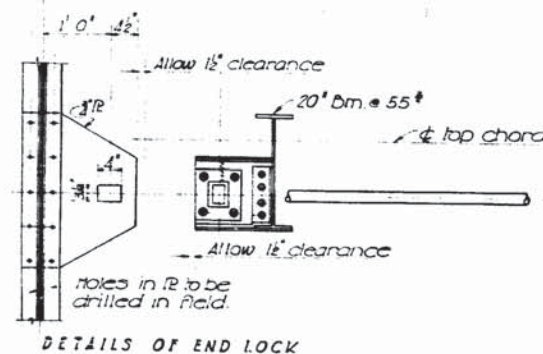
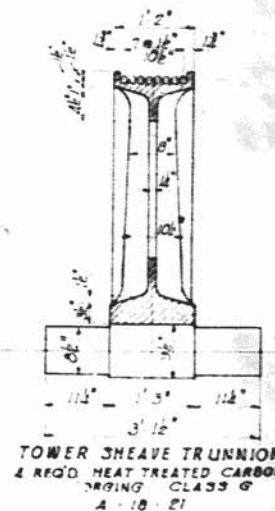
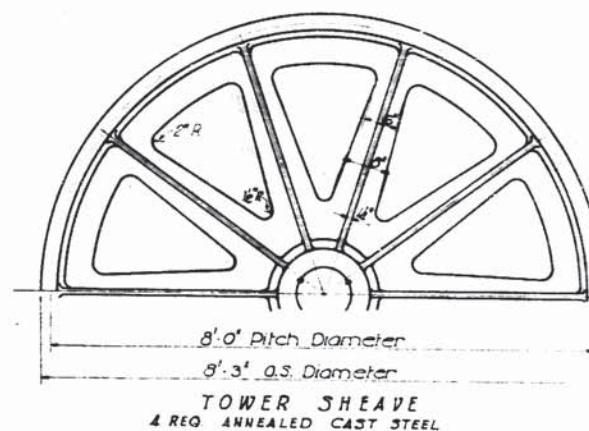
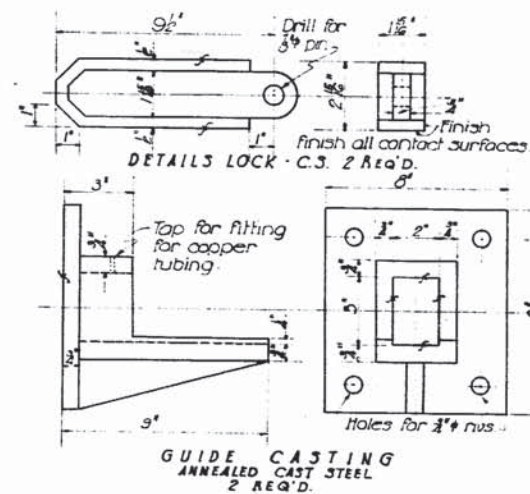
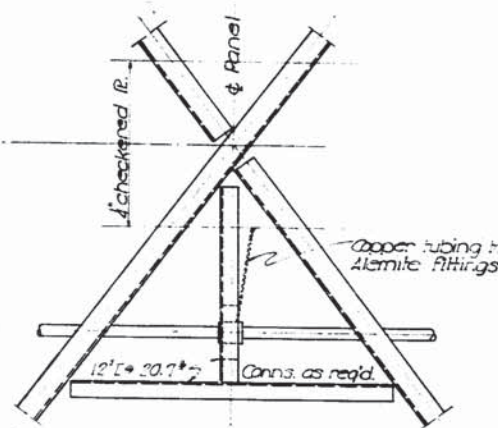
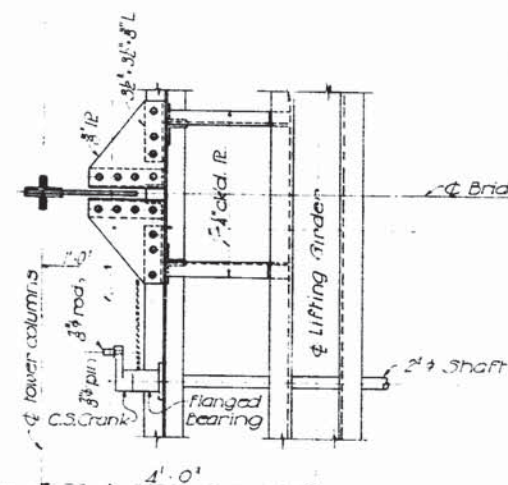
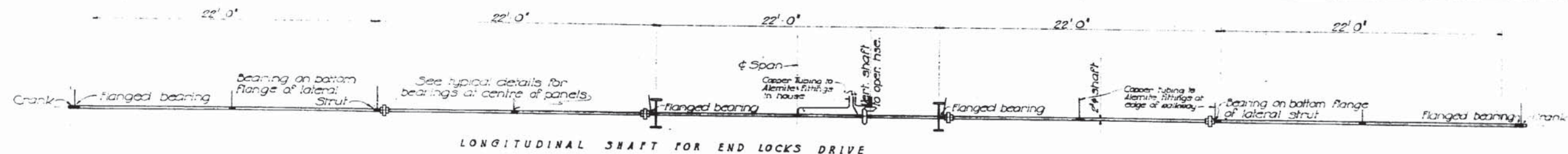
SPAN POSITIONS INDICATOR



STANDARD PLAN
110'-0" VERTICAL LIFT SPAN
24'-0" ROADWAY
MACHINERY DETAILS
LOUISIANA HIGHWAY COMMISSION
BATON ROUGE, LA. OCT. 1932
Designed by *W.D. Thompson*
Checked by *W.D. Thompson*
In Charge of *W.D. Thompson*

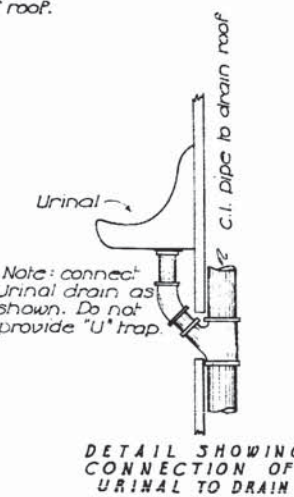
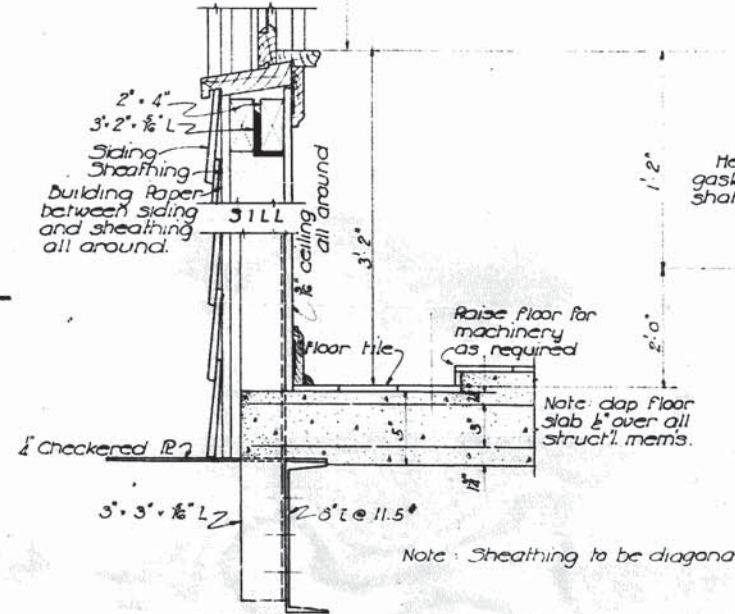
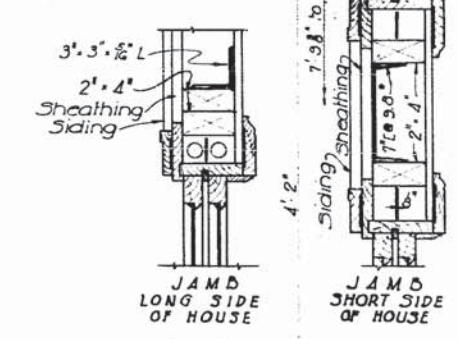
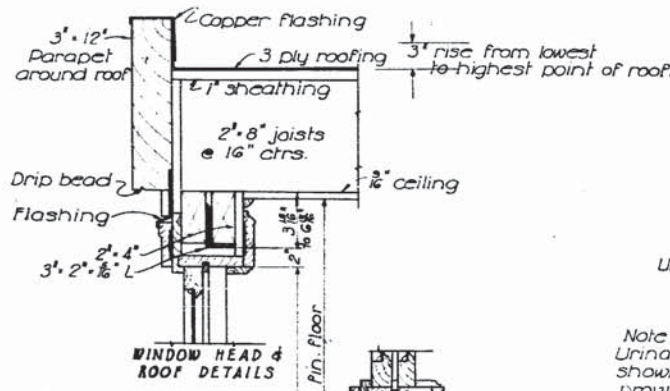
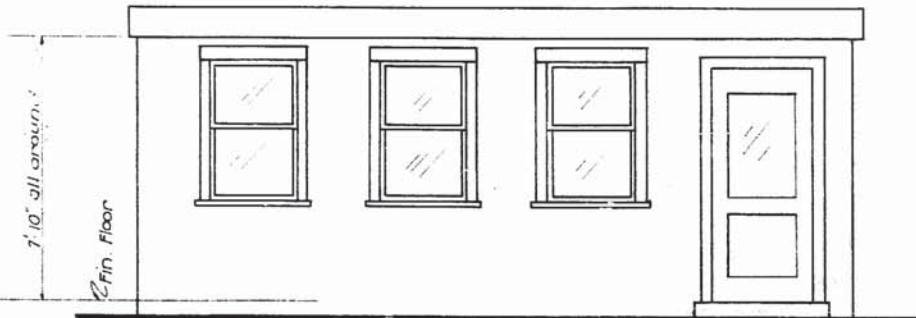
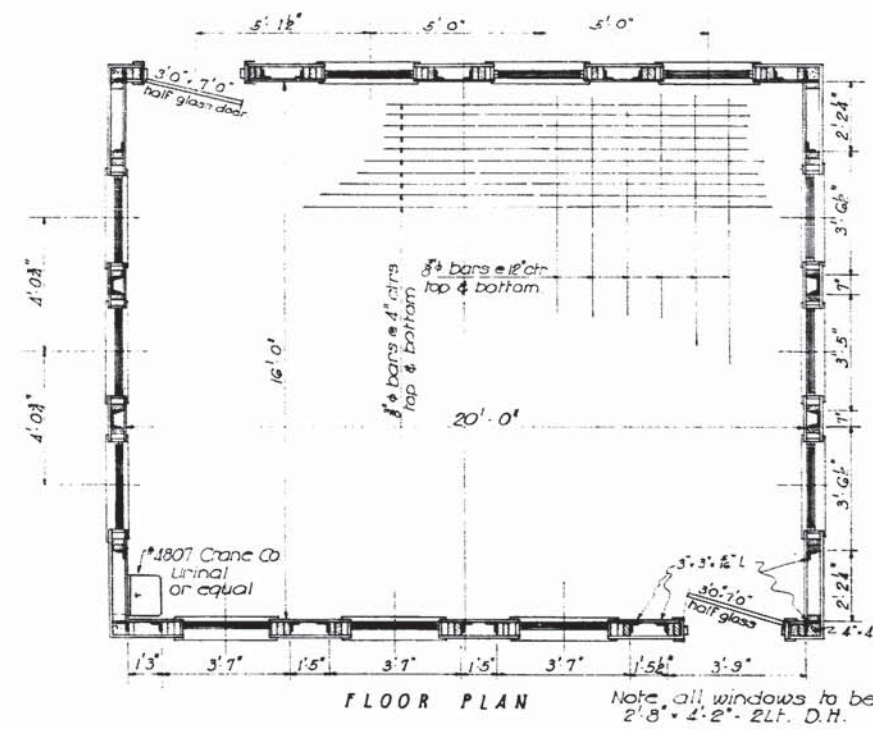
Revised to 1933
W.D. Thompson





STANDARD PLAN			
110'-0" VERTICAL LIFT		SPAN -	
24'-0" ROADWAY			
MACHINERY DETAILS			
LOUISIANA HIGHWAY COMMISSION			
BATON ROUGE, LA		D.T. 1938	
Designed by <i>J. S. Smith</i>	Detected by <i>J. S. Smith</i>	Drawn by <i>Thorne</i>	
Checked by <i>Thorne</i>	Checked by <i>Thorne</i>	Reviewed by <i>Frederick</i>	
In Charge of <i>J. S. Smith</i>	Modified by <i>Bridge</i>	Designing Engineer	

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General Notes:

Timber framing shall be of heart cypress. All other lumber shall be Grade "B" Cypress. All timber 543. Studs to be spaced at not over 24" centres. 2" x 4" studs and plates to be bolted to structural steel members where they adjoin such members. Copper flashing to be used around roof on parapet and over doors and windows. Roof shall drain to one corner where a 4" C.I. pipe will carry water below low steel. Window and door glass shall be double strength American glass. Copper screens to be provided for windows and doors. Concrete floor slab to be Class AA conc. covered with 4" x 6" red floor tile. Urinal will drain into 4" C.I. roof drain. Roofing shall be Standard 3 ply built up roofing. Structural Steel, Reinforcing Steel and Class AA concrete shall be paid for as such. All other materials required to construct house complete shall be included in lump sum bid on operators house. House shall have three coats of paint as specified in Art. 81.30, Pamphlet "N" La. Highway comm. Specifications. Urinal and 4" C.I. drain pipe to be included in lump sum bid for house.

FINAL QUANTITIES.

SUMMARY OF QUANTITIES	
Class AA conc.	7.35 CU. YDS.
Struct. Steel	1662 LBS.
Reinf. Steel	990 LBS.

NOTE:

FOR STRUCTURAL STEEL SEE MR. LANT'S LETTER-OCT 10, 1933.

CL. AA CONC. AND REINF. STEEL SEE "AS BUILT" PLAN-SHEET NO. 16.

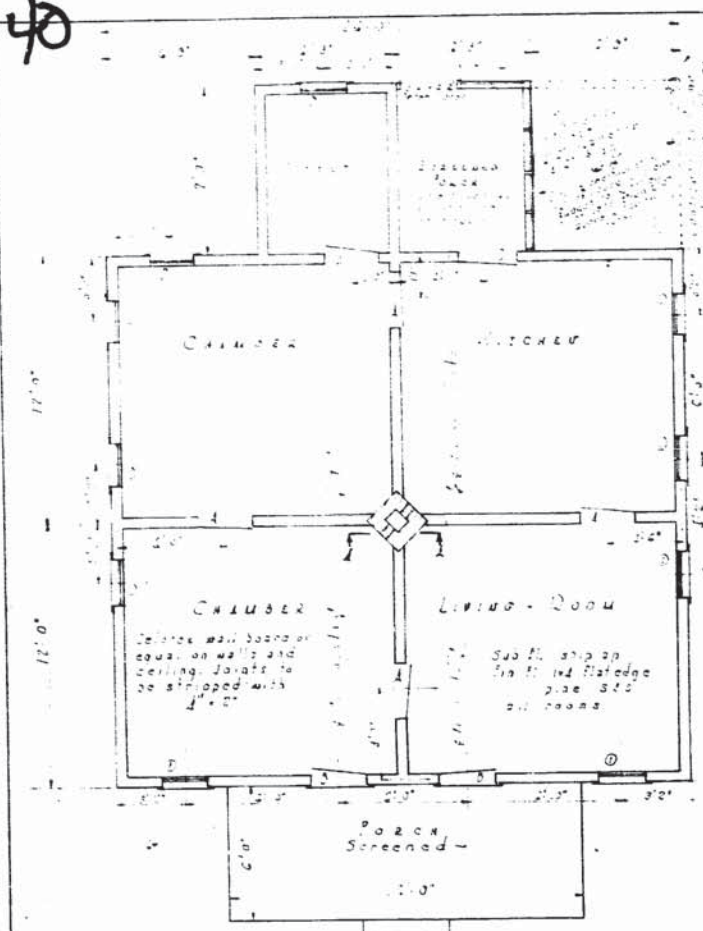
November 20, 1933

W. L. Thompson

STANDARD PLAN	
OPERATORS HOUSE	
110'-0" VERTICAL LIFT SPAN	
24'-0" ROADWAY	
LOUISIANA HIGHWAY COMMISSION	
BATON ROUGE, LA.	OCT 1933
Designed by: [Signature]	Checked by: [Signature]
Drawn by: [Signature]	Revised by: [Signature]
In Charge of Office: [Signature]	Designing Engineer



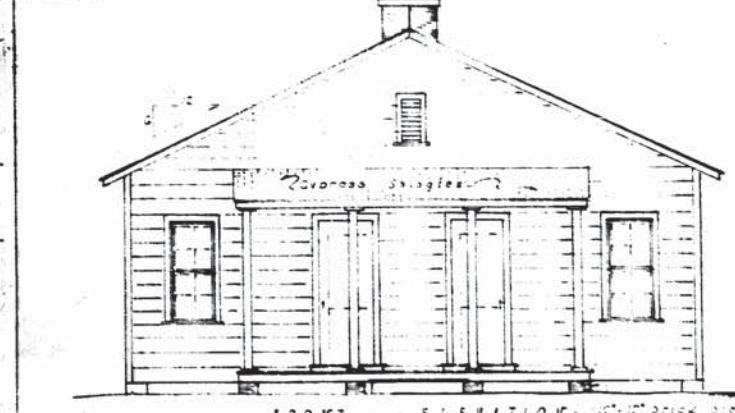
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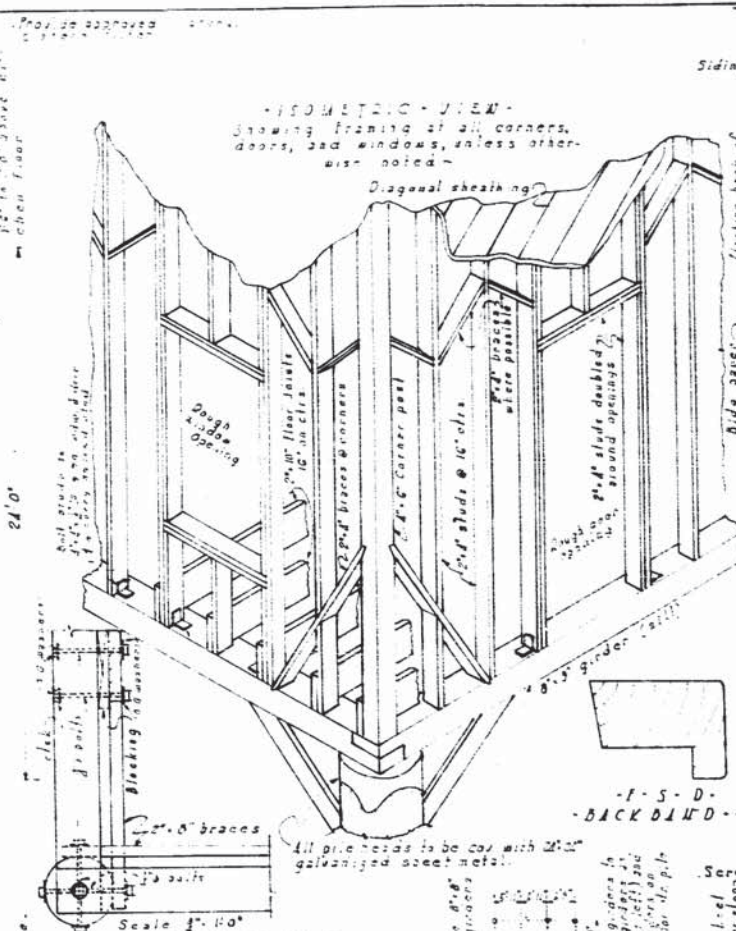
FLOOR PLAN

ESTIMATED SCHEDULE

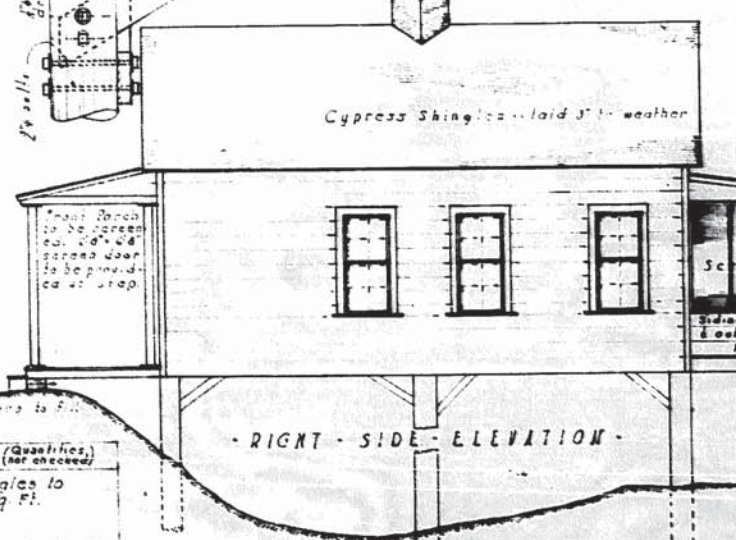
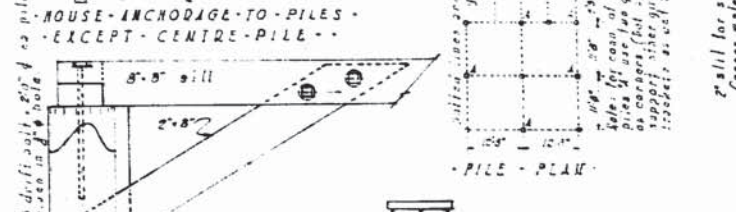
NO.	DESCRIPTION	QTY.	UNIT
1	2x4 S.P. 12' long	12	PC
2	2x6 S.P. 12' long	12	PC
3	2x8 S.P. 12' long	12	PC
4	2x10 S.P. 12' long	12	PC
5	2x12 S.P. 12' long	12	PC
6	2x4 S.P. 12' long	12	PC
7	2x6 S.P. 12' long	12	PC
8	2x8 S.P. 12' long	12	PC
9	2x10 S.P. 12' long	12	PC
10	2x12 S.P. 12' long	12	PC



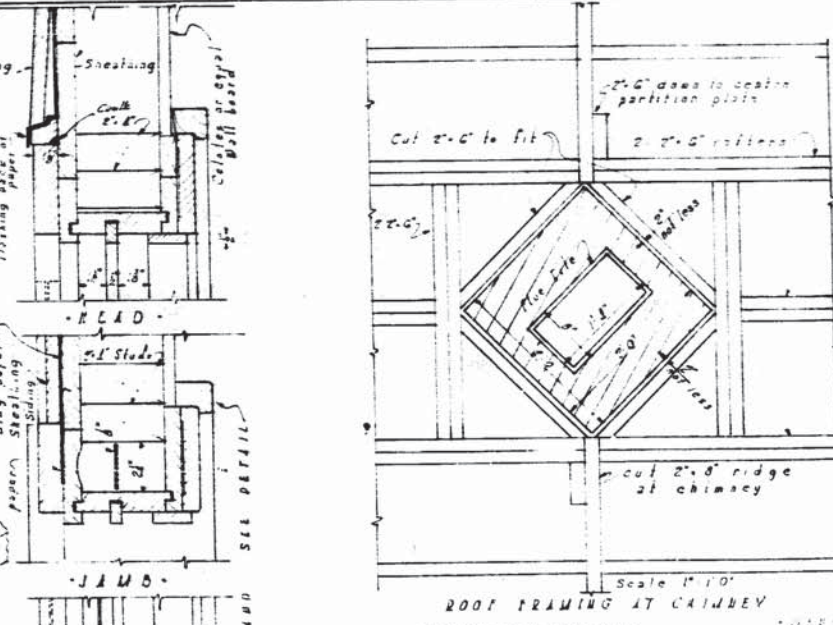
FRONT ELEVATION



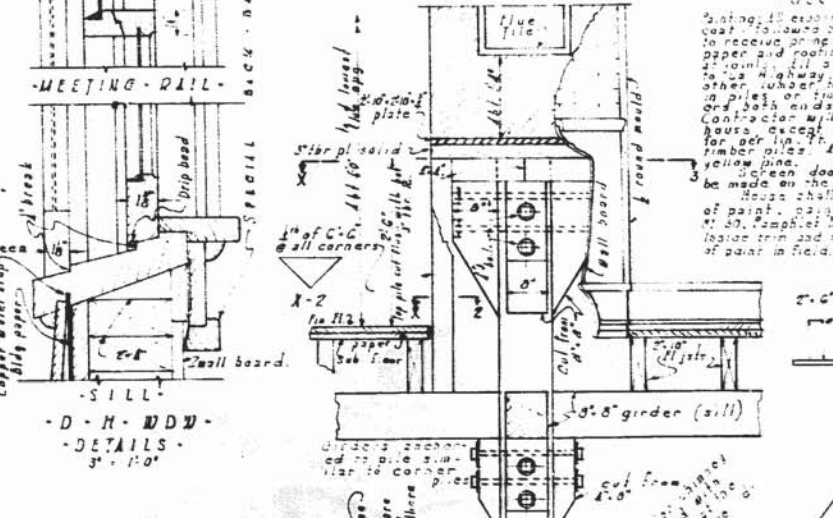
ISOMETRIC VIEW



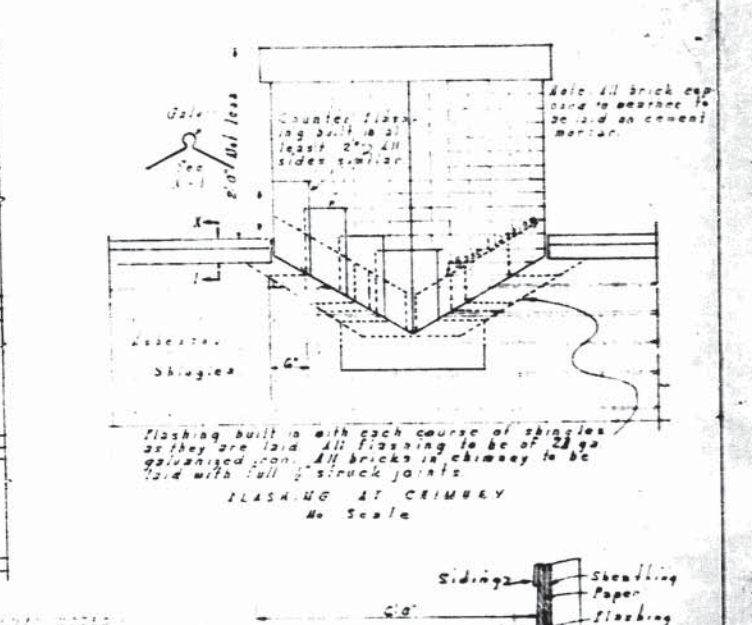
RIGHT SIDE ELEVATION



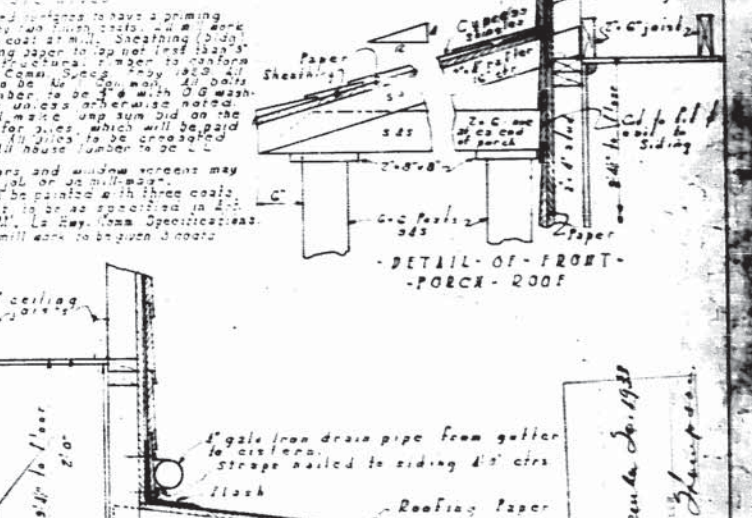
ROOF FRAMING AT CHIMNEY



DOOR DETAILS



FLASHING AT CHIMNEY



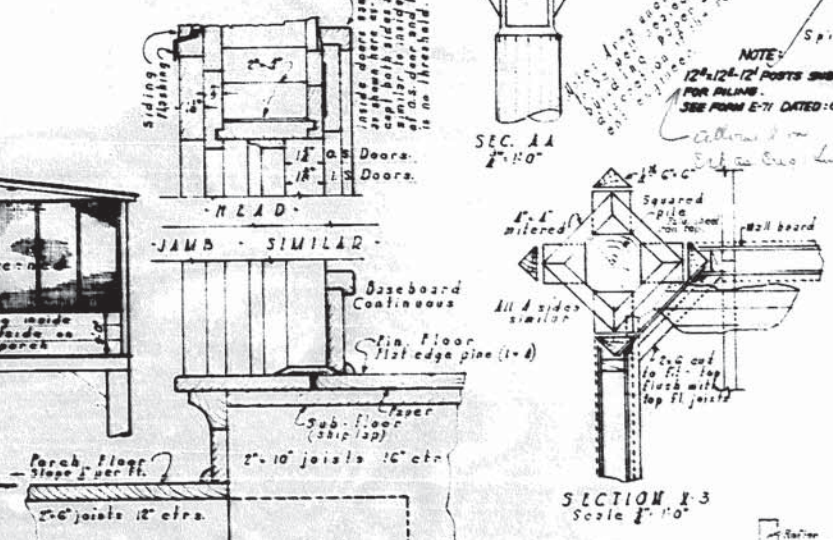
DETAIL OF FRONT PORCH ROOF

APPROXIMATE QUANTITIES OF PRINCIPAL ITEMS (Quantities not checked)

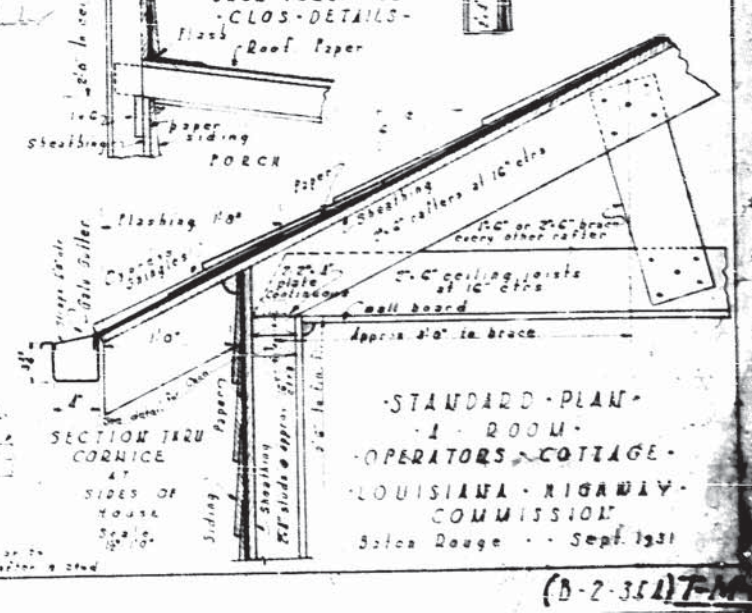
ITEM	QTY.	UNIT
3000 sq. ft. sheathing (shiplap)	3000	SQ. FT.
2100 sq. ft. 2x4 drop siding	2100	SQ. FT.
1050 sq. ft. 1x4 floor (flat edge)	1050	SQ. FT.
575 lin. ft. 3x4 cas. & baseboard	575	LF
500 lin. ft. 1x6 2x4 cas. & baseboard	500	LF
300 lin. ft. spec. barkboard mould.	300	LF
600 lin. ft. 2x4 2nd moulding	600	LF
1500 lin. ft. 2x4 2nd moulding	1500	LF
9750 lin. ft. 2x4 2nd moulding	9750	LF

APPROXIMATE QUANTITIES OF PRINCIPAL ITEMS (Continued)

ITEM	QTY.	UNIT
280 lin. ft. 2x4 2nd moulding	280	LF
270 lin. ft. 2x4 2nd moulding	270	LF
20 lin. ft. 2x4 2nd moulding	20	LF
10 lin. ft. 2x4 2nd moulding	10	LF
10 lin. ft. 2x4 2nd moulding	10	LF
200 lin. ft. 2x4 2nd moulding	200	LF



BACK PORCH AND CLOSET DETAILS

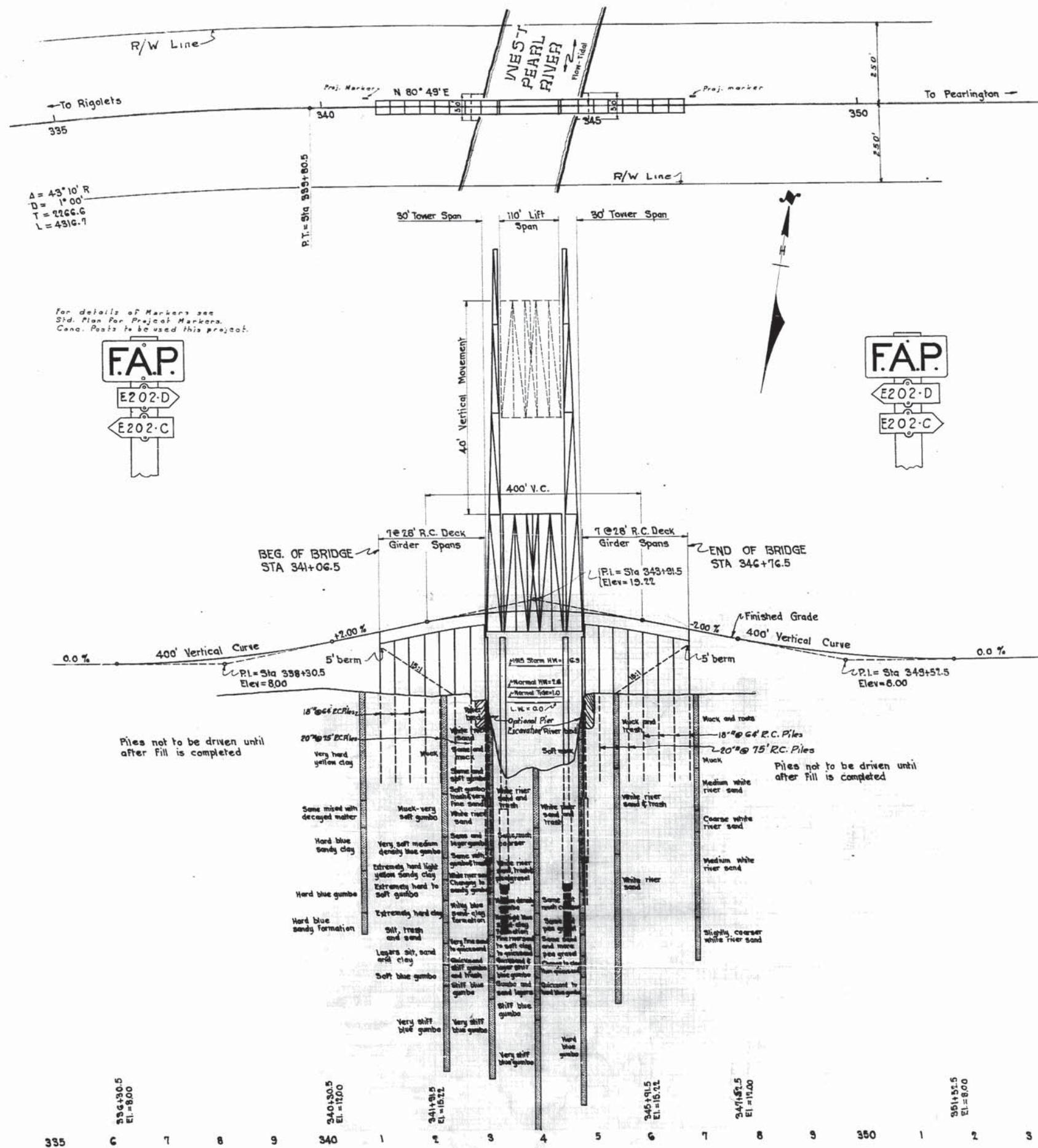


STANDARD PLAN

1 ROOM OPERATORS' COTTAGE
LOUISIANA HIGHWAY COMMISSION
Baton Rouge, La. Sept. 1931

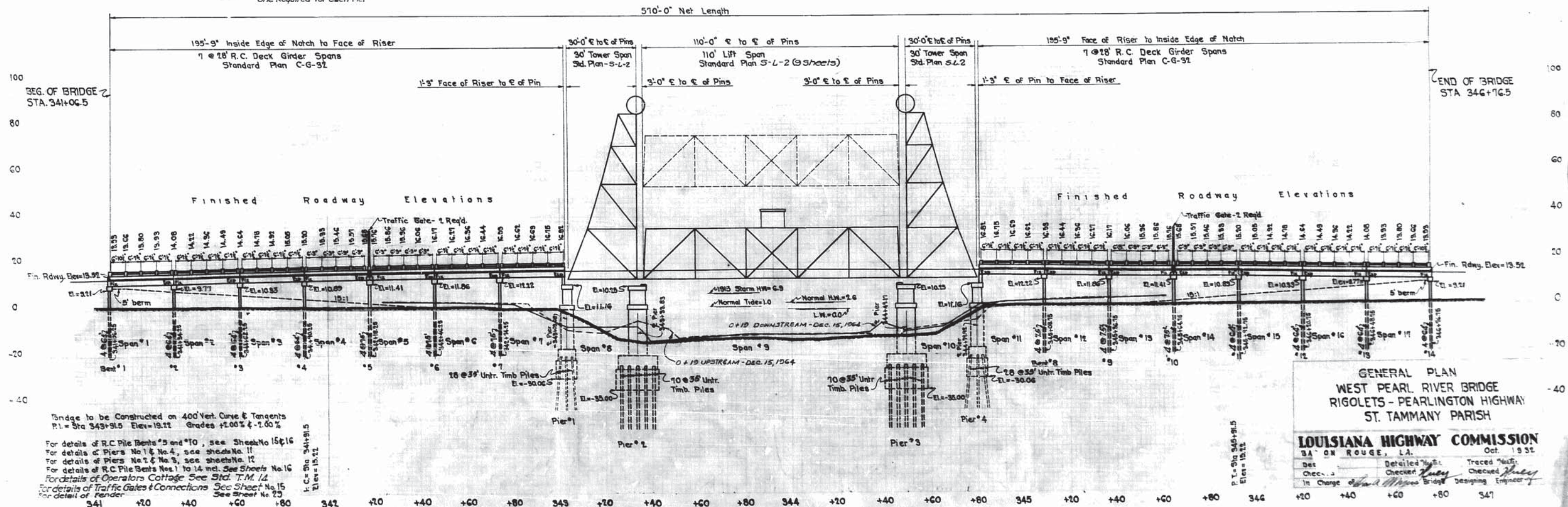


50

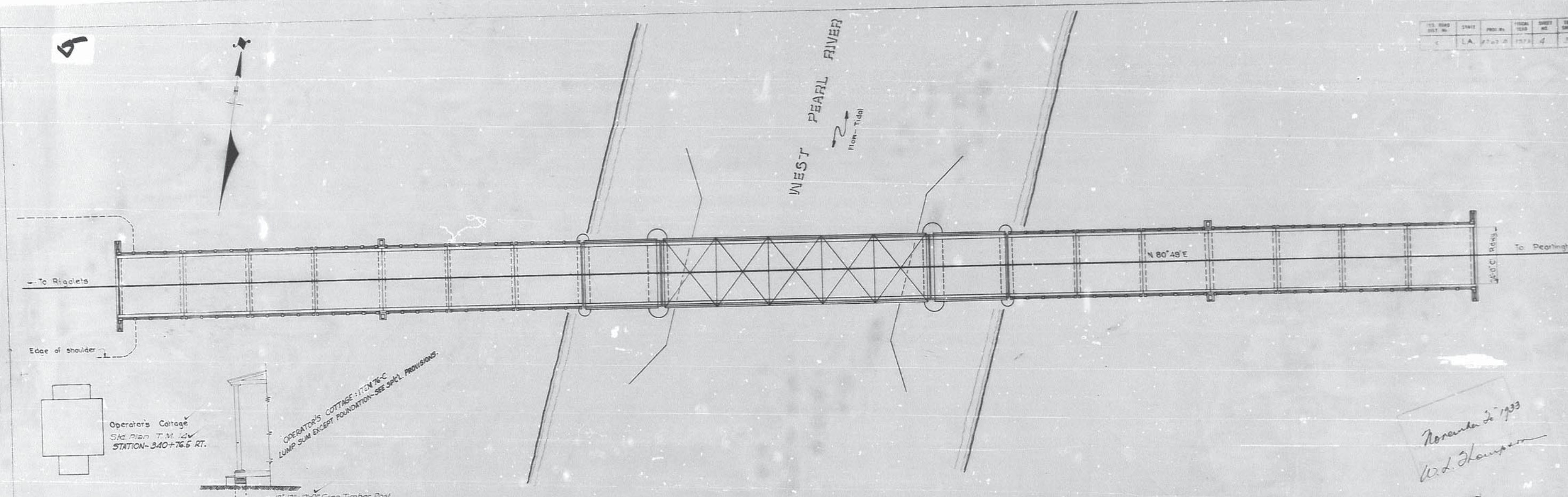


PLAN & PROFILE
WEST PEARL RIVER BRIDGE
RIGOLETS-PEARLINGTON HIGHWAY
ST. TAMMANY PARISH

LOUISIANA HIGHWAY COMMISSION
BATON ROUGE, LA. Oct 1932
Designed by [Signature] Checked by [Signature] Traced by [Signature]
In Charge of [Signature] Bridge Designing Engineer



PLAN
NOTES
NO. 1



Operator's Cottage
Std. Plan T.M. 14
STATION-340+76.5 RT.

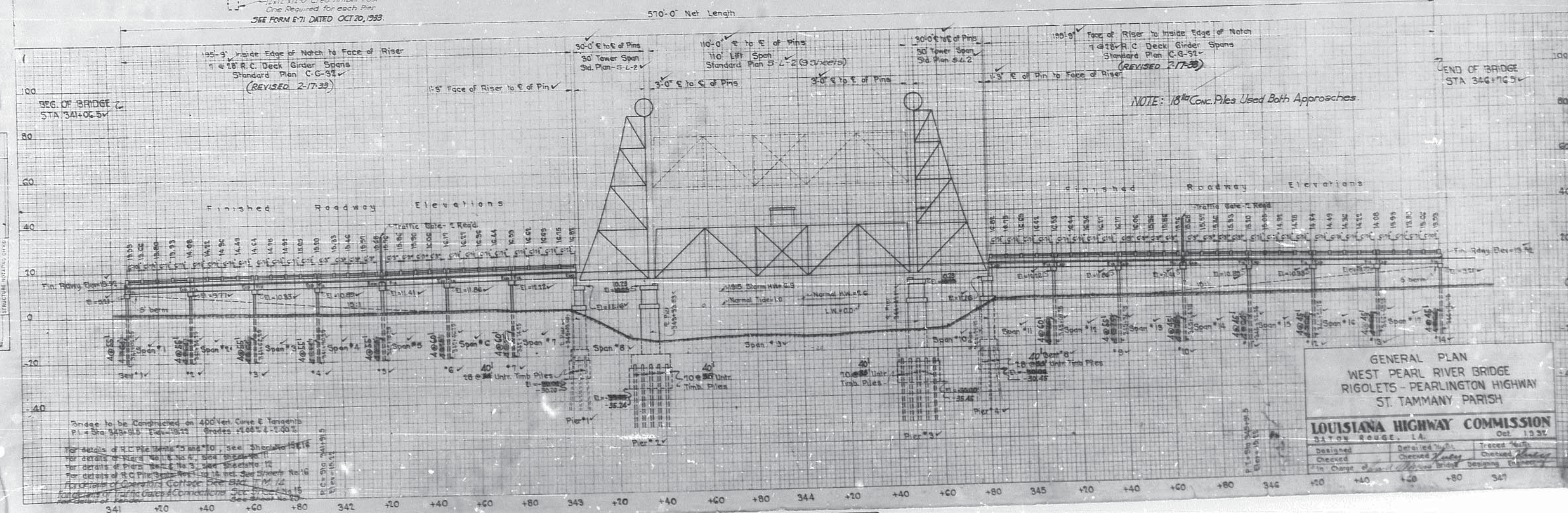
Operator's Cottage: 17'x17'x6'-0"
LUMP SUM EXCEPT FOUNDATION-SEE SPEC. PROVISIONS.

12"x12"-0" Creosote Timber Post
One Required for each Pier

SEE FORM E-71 DATED OCT. 20, 1933.

November 2, 1933
W.D. Thompson

PROFILE
NOTES
NO. 2



GENERAL PLAN
WEST PEARL RIVER BRIDGE
RIGOLETS - PEARLINGTON HIGHWAY
ST. TAMMANY PARISH

LOUISIANA HIGHWAY COMMISSION
Baton Rouge, La. Oct. 1933

Designed by [Signature]
Checked by [Signature]
In Charge of [Signature]